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CARNEGIE LIBRARY OF PITTSBURGH

1893-1903

IN THREE VOLUMES

CLASSIFIED CATALOGUE
OF THE
CARNEGIE LIBRARY OF PITTSBURGH

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CLASSIFIED CATALOGUE
OF THE
CARNEGIE LIBRARY OF PITTSBURGH

1895—1902

IN THREE VOLUMES

VOLUME I
GENERAL WORKS—PHILOSOPHY—RELIGION
SOCIOLOGY—PHILOLOGY—NATURAL SCIENCE
USEFUL ARTS

15971



PITTSBURGH
CARNEGIE LIBRARY
1907

JUN 1907

CARNEGIE LIBRARY PRESS
PITTSBURGH

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Carnegie Library of Pittsburgh

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Preface

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The Board of Trustees of the Carnegie Library of Pittsburgh was organized in 1890. The following year permission was obtained from the city to erect in Schenley Park a central building dedicated to its purposes, to be followed by the erection of branches in other parts of the city. As this first structure approached completion, the work of the Library proper began early in 1895 with the organization of a staff under the leadership of Edwin H. Anderson and in November of that year the Library was opened to the public with a collection of about 16,000 volumes.

A dictionary catalogue listing about 9,000 volumes of the collection had been prepared in pamphlet form and was ready for distribution at the formal opening of the Library to the public. A second impression of this, with slight corrections, was quickly supplied. Since that time no catalogue in book form, attempting to cover the whole of the Library's collections, has been issued. A decision was soon reached, however, to issue regular monthly bulletins of additions to the Library and these began to appear in April 1896. The next year a department of printing was created and not only the Monthly Bulletin but also the cards for the regular card catalogues of the Library, including those of the branches as established, were issued in printed form. The composition was by linotype and the metal was preserved in the form of type so that lists and catalogues of various kinds might be printed from time to time without incurring the cost of resetting the matter. These type-forms have been used in the making of a number of such lists.

In 1902 a decision was made to issue in book form a Classified Catalogue of all the books in the Library. The collections had grown rapidly and at that time numbered about 145,000 volumes, among which were included many duplicate copies made necessary by the popular character of the work of the Library and its organization of branches.

A number of elements conspired to bring about the de-

cision at that time to proceed with the printing of this catalogue, the most potent of which was the fact that a new and more satisfactory type-face had been determined upon for use in entry words and call numbers in all the catalogues of the Library after July 1, 1902. Thus the type which had until that time been used in printing the catalogue cards and the Monthly Bulletin might be used once more for a book catalogue and then melted down. Because of the change of type only those books in the possession of the Library previous to July 1902 could be included. Subsequent additions would form a supplementary catalogue or a series of supplementary catalogues. It may, perhaps, as well be stated here that the first of these supplements is already in type forming two volumes which are to be issued as soon as they can be got off the press after the three volumes comprising this, the first Classified Catalogue in book form of this Library, have been issued. The five volumes combined will make a complete catalogue of the Library to January 1, 1907, grown by that time to 242,000 volumes.

The use of the old linotype matter made it desirable that few changes should be attempted. Some careful revision was necessary, however, because in the years which had elapsed since the work of printing the catalogue cards had begun, it was inevitable that inconsistencies, and some inaccuracies, should have accumulated. It was not deemed practicable to make all the changes and corrections that were thought desirable. In classification practically no revision was made through the first five main classes of books and in the last five only such changes were made as seemed most urgent, except in the classes Natural science and Useful arts. There the classification was altered and expanded considerably in consonance with the work of the Institut International de Bibliographie at Brussels.

Annotation has been a marked feature in catalogues and lists made by the Library from an early day in its history and it was felt that additional descriptive and explanatory notes to many of the titles in this catalogue would have greatly enhanced its interest and value, but because of the time and labor involved in their preparation few annotations were

added in the earlier parts of the work and none whatever were added in the fiction list. Such notes as were already in type for certain titles were used; other titles needing it no less remain without this feature. The great desirability of these helps has been more strongly felt as the work proceeded and in the latter portion thereof the practice has been so altered that many new notes have been added to titles in the classes Fine arts, History, Travel and description, and Biography.

The general arrangement of the catalogue is in agreement with the divisions of the Decimal Classification, now in rather common use in the United States, of which a brief synopsis is given on page XII of this volume. Individual biographies, however, are arranged in one alphabet and filed under the name of the subject. Likewise books on history, and on travel and description, although assigned numbers in accordance with the regular classification, are arranged in a special way by being placed together under the name of the country treated. At the end have been added full author and subject indexes. It is perhaps unnecessary to state that of course the catalogue does not show the entire resources of the Library upon a given subject, since it does not list specifically parts of a book treating a particular subject. Entries of that character are to be found only in the card catalogues of the Library. Moreover it was not the intention to make a bibliography, therefore many details commonly inserted even in library catalogues were here omitted, the object being to make a simple catalogue for public use as a finding list.

The complete remodeling of the main structure originally erected for the Library and opened in 1895, together with the building of very large additions thereto, brought about conditions that have greatly retarded the preparation and issue of this catalogue. These may be the more clearly realized when it is understood that not only the processes of cataloguing and proof-reading, but also all those of composition, presswork and binding have been accomplished without the employment of other agencies than the Library's own facilities within its Central Library building and have been carried on continuously during the course of that reconstruction and enlargement mentioned above. To offset the incon-

venient delay as far as possible for the public, the classes or parts of the catalogue as they came from the press have been issued in pamphlet form and may be bound up into complete volumes by those possessing all the parts.

Generous acknowledgement is due the Board of Trustees for its broad and liberal support of the whole work of the Library. And beyond that statement it is only fair that there should be singled out for personal mention the President of the Board, Mr W. N. Frew, and the Chairman of the Committee on Administration, Mr George A. Macbeth, both of whom in all the affairs of the Library have given of their time and strength without stint, thereby making such a task as this possible of accomplishment.

To Edwin H. Anderson, the former Librarian, belongs the credit for the inception of the work and the conduct of a large share of it. He saw through the press the first four parts of the catalogue, covering the classes General works, Philosophy, Religion, Sociology, Philology, Natural science and Useful arts. In this he was ably seconded by Miss Henrietta St. B. Brooks, to whom as chief of the Catalogue Department at that time he committed the immediate supervision of the work. Under her were issued the first two sections. Upon leaving the service of the Library, she was succeeded by Miss Margaret Mann, who has carried the work to its completion.

To Miss Mann especially and to her corps of assistants generally should be given hearty recognition for the successful accomplishment of a difficult task in the midst of other heavy duties and under physical conditions that have been most trying—the reconstruction of the building having been carried on all about them as they worked. Of her immediate staff two have done work of so special a character that it calls for notice. These are Miss Irene Stewart, who has revised and edited the copy for printing, and Miss Marion A. Knight, who has revised the classification, making changes and expanding classes where necessary.

The Department of Printing and Binding, under the efficient management of Mr William H. Schwarten, has suffered heavily from the same conditions that have so hampered all departments of the Library and is deserving of high commendation for the results achieved.

These acknowledgements would not be complete without a mention of Miss Mabel A. Frothingham, who as Editor of Library Publications has read all the proof, except that of the first three classes, with an eye both to general form and to specific details after it had passed the usual proof-readers. Further a spirit of cordial cooperation throughout the staff has added many helpful touches here and there, small in themselves, but great in a way that I am unwilling to leave without recognition.

ANDERSON H. HOPKINS,

21 February 1907.

Librarian.

How to Use the Catalogue

The entries in this catalogue are arranged according to the Decimal Classification, a system by which like subjects are brought together and related subjects are grouped in an order more or less logical. For a synopsis of the classes see page XII.

To find a book by a known **author** first consult the author index in volume 3. This index contains the author's name, titles of his works, call number of each work and reference to the volume and page of the catalogue on which the full entry will be found. The *call number* opposite each title is the symbol to be used in calling for the book, and should be copied exactly. If the work is in more than one volume, the volume wanted should be specified in addition to the full *call number*. The titles and call numbers for works of fiction are not included in the author index; there the author's name only is given, with a reference to the list of fiction, where the full entry will be found. Call numbers preceded by the letter "r" or "b" designate books in the reference collection which are not loaned for use outside the Library. These books, as well as all others in the Library, may be consulted freely in the Reference room. The letter "j" prefixed to a call number indicates that the book is in the Children's Department. The author index includes anonymous titles, names of societies and institutions, and titles of all periodical publications.

To find the given resources on a **general subject** or **class** the synopsis on p. XII of vol. I may be consulted. Only the broad classes are outlined here, but the table serves to show at a glance the scheme of arrangement followed in the catalogue and furnishes a key to the main classes of literature. A more direct way to find books on a **particular subject** is to consult the subject index in volume 3. The number following the subject is the class-number standing for that subject and shows its relative location on the shelves—for example, all books on chemistry will be in class 540. The page number

refers to that place in the catalogue where the books on the subject in question are entered and where the call number for individual works may be ascertained.

Fiction has been filed after the general class Literature, vol.2, p.1722.

Description and travel is grouped with the history of the country treated.

Biography, both collected and individual, has been placed after the general class History, vol.3, p.2708. For individual biography 92 has been used as the class number.

Errata for each volume will be found at the end of the volume.

Synopsis of Classification

Class	Volume and page	Class	Volume and page
000 General works.....	I: 1	500 Natural science.....	I: 575
010 Bibliography.....	I: 1	510 Mathematics.....	I: 588
020 Library economy.....	I: 30	520 Astronomy.....	I: 595
030 General encyclopedias.....	I: 40	530 Physics.....	I: 611
040 General collections.....	I: 42	540 Chemistry.....	I: 644
050 General periodicals.....	I: 42	550 Geology.....	I: 682
060 General societies.....	I: 50	560 Paleontology.....	I: 726
070 Newspapers.....	I: 50	570 Biology.....	I: 735
080 Special libraries.....		580 Botany.....	I: 768
090 Book rarities.....	I: 55	590 Zoölogy.....	I: 790
100 Philosophy.....	I: 59	600 Useful arts.....	I: 837
110 Metaphysics.....	I: 62	610 Medicine.....	I: 851
120 Metaphysical topics.....	I: 63	620 Engineering.....	I: 888
130 Mind and body.....	I: 64	630 Agriculture.....	I: 980
140 Philosophical systems.....	I: 72	640 Domestic economy.....	I: 1002
150 Psychology.....	I: 72	650 Commerce. Business.....	I: 1011
160 Logic.....	I: 81	660 Chemical technology.....	I: 1033
170 Ethics.....	I: 83	670 Manufactures.....	I: 1090
180 Ancient philosophers.....	I: 100	680 Mechanic trades.....	I: 1100
190 Modern philosophers.....	I: 102	690 Building.....	I: 1105
200 Religion.....	I: 108	700 Fine arts.....	2: 1119
210 Natural theology.....	I: 120	710 Landscape gardening.....	2: 1145
220 Bible.....	I: 128	720 Architecture.....	2: 1153
230 Doctrinal theology.....	I: 159	730 Sculpture.....	2: 1201
240 Devotional. Practical.....	I: 175	740 Drawing. Decoration.....	2: 1218
250 Homiletic.....	I: 183	750 Painting.....	2: 1239
260 Church. Institutions.....	I: 188	760 Engraving.....	2: 1292
270 Religious history.....	I: 203	770 Photography.....	2: 1298
280 Churches and sects.....	I: 221	780 Music.....	2: 1313
290 Ethnic. Non-Christian.....	I: 247	790 Amusements.....	2: 1413
300 Sociology.....	I: 264	800 Literature.....	2: 1438
310 Statistics.....	I: 279	810 American.....	2: 1459
320 Political science.....	I: 289	820 English.....	2: 1512
330 Economics.....	I: 319	830 German.....	2: 1639
340 Law.....	I: 389	840 French.....	2: 1656
350 Administration.....	I: 417	850 Italian.....	2: 1676
360 Associations. Institutions.....	I: 449	860 Spanish.....	2: 1682
370 Education.....	I: 465	870 Latin.....	2: 1684
380 Commerce.....	I: 505	880 Greek.....	2: 1697
390 Customs. Folk-lore.....	I: 529	890 Minor languages.....	2: 1713
400 Philology.....	I: 555	Fiction.....	2: 1722
410 Comparative.....	I: 556	900 History.....	2: 2068
420 English.....	I: 558	910 Geography and travel.....	2: 2084
430 German.....	I: 566	920 Biography.....	3: 2708
440 French.....	I: 568	930 Ancient history.....	2: 2116
450 Italian.....	I: 569	940 Europe.....	2: 2154
460 Spanish.....	I: 569	950 Asia.....	2: 2335
470 Latin.....	I: 570	960 Africa.....	2: 2380
480 Greek.....	I: 571	970 North America.....	3: 2411
490 Minor languages.....	I: 571	980 South America.....	3: 2679
		990 Oceanica. Polar regions.....	3: 2688

General works

010 Bibliography

- BIBLIOGRAPHER; monthly. 6v. 1882-84.....qro10 B47
Continued by "Book-lore."
- BIBLIOGRAPHICA; papers on books, their history and art;
quarterly. 3v. 1895-97.....qro10 B473
v.3 contains a general index.
No more published.
- BOOK-LORE; monthly. 6v. 1885-87.....qro10 B63
Continuation of "Bibliographer."
- BOOKMAN literary year-book. 1898.....ro10 B631
- BOOKMART; monthly. 8v. in 5. 1884-90.....qro10 B6313
No more published.
- BOOKWORM; an illustrated treasury of old-time literature;
monthly. 7v. 1888-94.....ro10 B6312
No more published.
- BULLETIN of bibliography. v.1-date. 1897-date.....qro10 B87
- BURTON, John Hill.
Book-hunter.o10 B95
- CAMPBELL, Frank.
Theory of national and international bibliography, with
special reference to the introduction of system in the
record of modern literature. 1896.....ro10 C15
- CLEGG, James, *comp.*
International directory of booksellers, and bibliophile's
manual, including lists of the public libraries of the
world. 1899.....ro10 C551
Bibliographical works of reference, p.313-344.
- DIBDIN, Thomas Frognall.
Bibliomania; or, Book-madness. 1876.....qro10 D54
- ELTON, Charles Isaac, & Mary Augusta.
Great book-collectors. 1893. (Books about books.).....o10 E56
- FIELD, Eugene.
Love affairs of a bibliomaniac. 1896.....o10 F45
"Field conceived the volume as recording the talk and recollections of
a collector of mature years, looking back fondly upon the passions of
his life and passing them on to his fellows with modesty, but withal a
conviction that he who makes two bibliomaniacs to grow frenzied
where only one was mad before is a benefactor to the human race."
New York tribune.
- GENTLEMAN'S magazine library; ed. by G. L. Gomme; Bib-
liographical notes. 1889.....o10 G29
- GROWOLL, Adolf.
American book clubs; their beginnings and history, and a
bibliography of their publications. 1897.....ro10 G94
- LANG, Andrew.
The library. 1892.....o10 L23

- LIBRARIAN, by James Savage; monthly. 3v. in 2. 1808-09..ro10 L68
No more published.
- LITERARY year-book. v.1-5. 1897-1901.....ro10 L74
- MAXWELL, Sir Herbert Eustace.
Rainy days in a library. 1896.....o10 M52
- MERRYWEATHER, F. Somner.
Bibliomania in the middle ages. 1849.....ro10 M63
- POWELL, G. H.
Excursions in Libraria; retrospective reviews and bibliographical notes. 1896.....ro10 P87
The same. 1896.....o10 P87
Contents: The philosophy of rarity.—A Gascon tragedy, 14th century.—A shelf of old story-books.—The pirate's paradise, 1740.—A medley of "Memoirs."—With Rabelais at Rome, 1536.—The wit of history.
- POWER, John, *comp.*
Handy-book about books. 1870.....ro10 P874
- ROBERTS, William.
Book-hunter in London; historical and other studies of collectors and collecting. 1895.....o10 R53
- ROGERS, Walter Thomas.
Manual of bibliography. 1891.....ro10 R61
- ROUYEYRE, Édouard, *ed.*
Connaissances nécessaires à un bibliophile; accompagnées de notes critiques et de documents bibliographiques.
10v. in 5. 1899.....ro10 R78
- SLATER, John Herbert, *comp.*
Library manual; a guide to the formation of a library.....ro10 S63
- SLATER, John Herbert.
The romance of book-collecting. 1898.....o10 S63
Contents: In eulogy of catalogues.—A comparison of prices.—Some lucky finds.—The forgotten lore society.—Some hunting-grounds of London.—Vagaries of book-hunters.—How fashion lives.—The rules of the chase.—The glamour of bindings.—The hammer and the end.
- UZANNE, Louis Octave.
Bouquinistes et bouquineurs; physiologie des quais de Paris du Pont Royal au Pont Sully. 1893.....o10 U35
Studies of the open-air booksellers and book-lenders and their stalls along the Paris quays, with some account of the history of the trade.
- WHEATLEY, Henry Benjamin.
Prices of books; an inquiry into the changes in the price of books which have occurred in England at different periods. 1898. (Library series.).....o10 W59
- BRUNET, Jacques Charles, *comp.*
Manuel du libraire, avec supplément. 8v. 1860-80.....ro11 B83
- DIBDIN, Thomas Frognall.
Library companion. 2v. 1824.....ro11 D54
A general bibliography, descriptive and critical. It gives special attention to old and rare editions. Dibdin's bibliographical work was severely criticised in contemporary reviews, which pronounced it inaccurate and misleading, and it is largely as bibliographical curiosities that his books retain interest to-day.
- DUCLOS, l'abbé, *comp.*
Dictionnaire bibliographique, historique et critique des

- livres rares. 3v. 1790.....r011 D86
 "Cet ouvrage auquel Cailleau passe pour avoir travaillé, est tout entier
 de Duclos." *Quérad.*
GRAESSE, Johann Georg Theodor, *comp.*
 Trésor de livres rares et précieux, avec supplément. 7v. in
 8. 1859-69.....qro11 G76
WATT, Robert, *comp.*
 Bibliotheca Britannica; or, A general index to British and
 foreign literature. 4v. 1824.....qro11 W32

012-013 Bibliography of individual authors

- BAKER**, William Spohn.
 Bibliotheca Washingtoniana. 1889.....qro12 W27
CORNELL UNIVERSITY—Library.
 Catalogue of the Dante collection presented by Willard
 Fiske. 2v. 1898-1900.....qro12 D23
 v.1. Dante's works.—Works on Dante (A-G).
 v.2. Works on Dante (H-Z).
FISH, Daniel, *comp.*
 Lincoln literature; a bibliographical account of books and
 pamphlets relating to Abraham Lincoln. 1900.....qro12 L71
KOCH, Theodore Wesley.
 Growth & importance of the Cornell Dante collection.
 1900.qro12 D23k
 Reprinted from the "Cornell magazine," June 1900.
KOCH, Theodore Wesley, *comp.*
 Hand-list of framed reproductions of pictures and portraits
 belonging to the Dante collection of Cornell university.
 1900. (Cornell university. Publications.).....qro12 D23k
 Bound with the above.
LINCOLN, Abraham.
 Catalogue of Lincolniana; a collection of engravings, litho-
 graphs, books, eulogies, orations, pamphlets, etc. relat-
 ing wholly or in part to Abraham Lincoln. 1902.....r012 L71c
MINER, William Harvey, *comp.*
 Daniel Boone; a contribution toward a bibliography of
 writings concerning Daniel Boone. 1901.....r012 B63m
OSWALD, Eugen, *comp.*
 Goethe in England and America; bibliography. 1899.
 (English Goethe society. Publications, no.8.).....r012 G550
 Reprinted from "Die neueren sprachen," Marburg.
PHILADELPHIA—Free library.
 Bulletin, Nov. 1898-date. v.1-date. 1898-date.....qro12 P49
 v.1 (no.1-4). Descriptive catalogue of the writings of Sir Walter Scott,
 by John Thomson.—Descriptive catalogue of the series of works
 known as the Library of old authors, by John Thomson.—Indexes to
 the first lines and to the subjects of the poems of Robert Herrick.—
 Some notes on the bibliography of the Philippines, by T. C. Middle-
 ton.
 Issued irregularly. These four numbers are all that have appeared up
 to August 1902.
SCOTT, Temple, *comp.*
 Bibliography of the works of William Morris. 1897.....r012 M91
SHEA, John Gilmary, *comp.*
 Bibliography of Hennepin's works. 1880.....r012 H44

SHEPHERD, Richard Herne, comp.

Bibliography of Carlyle; a list of the published writings of Carlyle, 1820-1881. 1881.....r012 C21

Bibliography of Coleridge; a list of the published and privately-printed writings of Coleridge; enl. by W. F. Prideaux. 1900.....r012 C68

Bibliography of Dickens; a list of the published writings of Dickens, 1834-1880. 1880.....r012 D55

Bibliography of Ruskin; a list of the published writings of Ruskin, 1834-1879. 1879.....r012 R89

Bibliography of Tennyson; a list of the published and privately-printed writings of Tennyson, 1827-1894. 1896..r012 T295

SPRINGFIELD, Mass. CITY LIBRARY ASSOCIATION.

Cromwell list; notes for the study of Oliver Cromwell and his times, with special reference to Arthur Paterson's novel "Cromwell's own," together with various other writings relating to the life of the lord protector. 1899..r012 C89

WINSHIP, George Parker, comp.

Cabot bibliography, with an introductory essay on the careers of the Cabots, based upon an independent examination of the sources of information. 1900.....r012 C11

UNITED STATES—Library of Congress.

Preliminary list of books and pamphlets by negro authors; comp. by Daniel Murray. 1900.....r013 U25

014 Anonyms, pseudonyms**BARBIER, Antoine Alexandre, comp.**

Dictionnaire des ouvrages anonymes. 4v. 1872-79.....r014 B23

CUSHING, William, comp.

Anonyms. 1890.....qr014 C93a

Initials and pseudonyms, 1st-2d ser. 2v. 1885-88.....qr014 C93

HALKETT, Samuel, & Laing, John, comp.

Dictionary of the anonymous and pseudonymous literature of Great Britain. 4v. 1882-88.....qr014 H16

015 Bibliography of special countries

AMERICAN catalogue, 1876-1900. v.1-6. 1889-1900.....qr015 A51

ANNUAL American catalogue, 1889-date. v.4-date. 1890-date.....qr015 A61

BENT, W. pub.

London catalogue of books, 1800-1827. 1827.....r015 B44

BIBLIOGRAPHIE de la France; ou, Journal général de l'imprimerie et de la librairie; weekly. v.1-date. 1810-date..qr015 B47

BOWKER, Richard Rogers, comp.

State publications; a provisional list of the official publications of the several states of the United States, from their organization. v.1. 1899.....r015 B66s
v.1. New England states.

BOWKER, Richard Rogers, & Hickcox, J. H. *comp.*

United States government publications, July 1, 1884-June

30, 1890. 1891.....qro15 B66

Reprint of the appendix of the "American catalogue," 1884-90.

CARDIFF FREE LIBRARIES, Cardiff, Wales.

Catalogue of printed literature in the Welsh department.

1898.qro15 C19

CATALOGUE annuel de la librairie française, 1893-1898;

rédigé par D. Jordell. 6v. 1894-99.....ro15 C27

Continued as "Répertoire bibliographique de la librairie française,"
ro15 C27r.

CUMULATED index to the books of 1898-date. v.1-date.

1900-date.qro15 C91

ENGLISH catalogue of books, 1835-1900. v.1-6. 1864-1901., qro15 E64

ENGLISH catalogue of books; annual, 1892-date. v.56-date.

1893-date.qro15 E64a

v.56-64, 1892-1900, bound with the "Annual American catalogue" for
the same years.

GROWOLL, Adolf.

Book-trade bibliography in the United States in the 19th
century, to which is added A catalogue of all the books
printed in the United States with prices and places
where published annexed, published by the booksellers
in Boston, January 1804. 1898.....ro15 G94

Contains sketches of some American bookseller-bibliographers, including
Henry Stevens and Frederick Leyboldt.

HAIGHT, W. R. *comp.*

Annual Canadian catalogue of books, 1896. v.1. 1898....ro15 H14a

Supplement to his "Canadian catalogue of books."

Canadian catalogue of books, 1791-1895. v.1. 1896.....ro15 H14

HEINSIUS, Wilhelm, *comp.*

Allgemeines bücher-lexikon; oder, Vollständiges alphabet-
isches verzeichniss der von 1700 bis 1893 erschienenen
bücher welche in Deutschland gedruckt worden sind.

19v. in 26. 1812-94.....qro15 H42

HILDEBURN, Charles Swift Riché, *ed.*

Century of printing; the issues of the press in Pennsyl-

vania, 1685-1784. 2v. 1885-86.....qro15 H54

v.1. 1685-1763.

v.2. 1764-1784.

Amplification of his "List of the publications issued in Pennsylvania,"
giving full descriptions of titles, with collations, of books, pamphlets
and broadsides. Contains an autograph letter from the author.

List of the publications issued in Pennsylvania, 1685 to 1759.

1882.qro15 H541

A preliminary list, giving only short titles, with the name of the printer,
and the date of issue, amplified in his "Century of printing." Ms.
annotations by Isaac Craig.

HINRICHS, J. C. *pub.*

Verzeichnis der im deutschen buchhandel neu erschien-
enen und neu aufgelegten bücher, landkarten, &c. v.190-

date. 1893-date.....qro15 H56

v.206-date title reads "Hinrichs' halbjahrs-katalog der im deutschen
buchhandel erschienenen bücher, landkarten, &c."

HODGSON, Thomas, *pub.*

London catalogue of books, 1831-1855. 1855.....ro15 H66

KAYSER, Christian Gottlob, *comp.*

Vollständiges bücher-lexicon. v.1-30, in 24. 1834-1900...qro15 K14

LE SOUDIER, H. *pub.*

Bibliographie française; recueil de catalogues des éditeurs français. 6v. 1896.....ro15 L64

The same. Ed. 2. 10v. 1900.....qro15 L64b

Mémorial de la librairie française; revue hebdomadaire des livres; complément de la Bibliographie française, 1896-date. v.3-date. 1896-date.....ro15 L64m

LORENZ, Otto Henri, *comp.*

Catalogue général de la librairie française, 1840-1899. v.1-

14. 1867-1901.....ro15 L87

v.1-4. 1840-1865.

v.5-6. 1866-1875.

v.7-8. Table des matières, 1840-1875.

v.9-10. 1876-1885.

v.11. Table des matières, 1876-1885.

v.12. 1886-1890; rédigé par D. Jordell.

v.13. Table des matières, 1886-1890; rédigé par D. Jordell.

v.14. 1891-1899; rédigé par D. Jordell.

LOWNDES, William Thomas, *comp.*

Bibliographer's manual of English literature; new edition

by H. G. Bohn. 6v. 1869.....ro15 L96

The same. 5v. in 4. 1858-64.....ro15 L96b

NIJHOFF, Martinus, *pub.*

Sciences, belles-lettres et arts dans les Pays-bas, surtout au 19e siècle; bibliographie systématique. v.1. 1895....ro15 N34

v.1. Linguistique, histoire littéraire, belles-lettres.

PUBLISHERS' trade list annual. v.12, 16, 18, 20, 22-date.

1884-date.qro15 P98

REFERENCE catalogue of current literature, 1894-1898. 3v.

1894-98.ro15 R28

RÉPERTOIRE bibliographique de la librairie française,

1900-date; rédigé par D. Jordell. v.1-date. 1901-date...ro15 C27r

Continuation of "Catalogue annuel de la librairie française," ro15 C27.

ROORBACH, Orville Augustus, *comp.*

Bibliotheca Americana; catalogue of American publications,

1820-1852. 1852.....ro15 R68

SAMPSON, Frederick Asbury.

Bibliography of Missouri authors. 1901.....qro15 S19

Reprint from "Encyclopædic history of Missouri."

STEVENS, Henry, *comp.*

American books with tails to 'em; a private pocket list of the incomplete or unfinished American periodicals, transactions, memoirs, judicial reports, laws, journals, legislative documents and other continuations and works in progress supplied to the British museum and other libraries, by Henry Stevens. 1873.....ro15 S84

TRÜBNER, Nicolas, *comp.*

Bibliographical guide to American literature; a classed list of books published in the United States during the last 40 years. 1859.....ro15 T77

UNITED STATES catalog; books in print, 1899; ed. by G. F. Danforth and M. E. Potter. 1900.....qro15 U2532

o16 Bibliography of special subjects

Many other bibliographies, forming parts of books, will be found noted with the books, under the subjects of which the books themselves treat.

AMERICAN LIBRARY ASSOCIATION.

Catalog of "A. L. A." library; 5000 volumes for a popular library selected by the American library association and shown at the World's Columbian exposition. 1893..ro16 A51
Published by the United States bureau of education.

BEST reading, 1st-4th ser. 4v. 1877-93.....ro16 B46
v.1 ed. by F. B. Perkins; v.2-4, by L. E. Jones.

BOWKER, Richard Rogers, *comp.*

Publications of societies; a provisional list of the publications of American scientific, literary and other societies, from their organization. 1899.....ro16 B66

BRITISH MUSEUM.

Subject index of the modern works added to the library, 1891-1895. 1897.....qro16 B75

HARVARD UNIVERSITY—Library.

Bibliographical contributions; ed. by Justin Winsor. v.1, no.12; v.2, no.22, 31-37; v.3, no.38-51; v.4, no.52-53, in 2. 1881-98.qro16 H33

Partial contents: v.1-3. Lane, W. C. *comp.* Dante collections in the Harvard college and Boston public libraries.—Woodberry, G. E. Notes on the ms. volume of Shelley's poems in the library of Harvard college.—Weitenkampf, Frank, *comp.* Bibliography of William Hogarth.—Potter, A. C. *comp.* Bibliography of Beaumont and Fletcher.—Gross, Charles, *comp.* Classified list of books relating to British municipal history.—Lane, W. C. & Bolton, C. K. *comp.* Notes on special collections in American libraries.—Weeks, S. B. *comp.* Bibliography of the historical literature of North Carolina.—Morgan, M. H. *comp.* Bibliography of Persius.—Albee, L. R. *comp.* The Bartlett collection; a list of books on angling, fishing and fish culture in the Harvard college library.

v.4. Potter, A. C. & Bolton, C. K. *comp.* Librarians of Harvard college, 1667-1877.—Brown, W. G. *comp.* List of portraits in the various buildings of Harvard university.

HASSE, Adelaide Rosalie, *comp.*

Reports of explorations printed in the documents of the United States government; a contribution toward a bibliography. 1899. (United States—Documents office.)..ro16 U25

LADIES' HOME JOURNAL.

Five thousand books; a guide to the best books. 1895....ro16 L13

NEW YORK (state)—Library.

Bulletin; bibliography. v.1-date. 1895-date.....ro16 N26

v.1 (no.1-20). Guide to the study of Whistler, by W. G. Forsyth and J. L. Harrison.—Reading list; colonial New England, by M. C. Wilson.—Select bibliography on travel in North America, by C. W. Plympton.—Reading list on the history of the 17th century, by G. F. Leonard.—Selection of reference books for the use of cataloguers in finding full names.—Reading list on Japan, by H. K. Gay.—Reading list on Venice, by Helen Sperry.—Reading list of out-of-door books, by H. H. Stanley.—Reading list on the Netherlands, by E. G. Thorne.—Reading list on renaissance art of the 15th and 16th centuries, by A. S.

- Ames and E. P. Andrews.—Reading list on history of latter half of 15th century, by Etheldred Abbot.—Best books of 1897, with notes.—Fairy tales for children, by F. J. Olcott.—Index to subject bibliographies in library bulletins, by Alice Newman.—Reading list on Russia, by A. L. Morse.—Illustrative material for nature study in primary schools, by C. W. Hunt.—Bibliography of biography of musicians, by A. L. Bailey.—Best books of 1898, with notes.—College libraries of the United States; contribution toward a bibliography, by Hugh Williams.—Reading list on house decoration and furnishing, by E. E. Miersch.
- v.2 (no.21-30). Best books of 1899, with notes.—Bibliography of domestic economy, by R. K. Shaw.—Reference list on Connecticut local history by C. A. Flagg.—Bibliography of New York colonial history, by C. A. Flagg and J. T. Jennings.—China and the Far East, 1889-99, by Margaret Windeyer.—Reference list on Maine local history, by D. B. Hall.—Best books, 1900, with notes.—List of a \$500 library recommended for schools.
- v.3 (no.31-32). Monopolies and trusts in America, 1895-99, by Fanny Borden.—Biography for young people, by B. E. Hyatt.
- NEW YORK (state)—University—Extension department.
- Syllabus, no.1-71. 3v. 1892-98.....ro16 N261
no.18, 45 wanting.
- SARGANT, E. B. & Whishaw, Bernhard.
- Guide book to books. 1891.....qro16 S24
- SONNENSCHNEIDER, William Swan, *comp.*
- Best books; a reader's guide. 1894.....qro16 S69
- Reader's guide to contemporary literature; 1st supplement
to Best books. 1895.....qro16 S69r
- STEVENS, Benjamin Franklin, *comp.*
- One thousand English books in handsome bindings recommended for the English portion of an American home library. 1874.....ro16 S84
- o16.01 Bibliography of bibliography**
- JOSEPHSON, Aksel Gustav Salomon, *comp.*
- Bibliographies of bibliographies; chronologically arranged, with occasional notes. 1901. (Chicago, Bibliographical society. Contributions to bibliography, no.1.)....ro16.01 J44
- OTTINO, Giuseppe, & Fumagalli, Giuseppe, *comp.*
- Bibliotheca bibliographica Italica; catalogo degli scritti di bibliologia, bibliografia e biblioteconomia pubblicati in Italia e di quelli riguardanti l'Italia pubblicati all'estero.
5v. in 1. 1889-1901.....qro16.01 O31
- PETZOLDT, Julius, *ed.*
- Bibliotheca bibliographica; kritisches verzeichniss der das gesamtgebiet der bibliographie betreffenden litteratur des in- und aus-landes, in systematischer ordnung.
1866.ro16.01 P46
- VALLÉE, Léon, *comp.*
- Bibliographie des bibliographies, avec supplément. 2v. in
1. 1883-87.....ro16.01 V16
- o16.05-o16.07 Bibliography of periodicals and newspapers**
- ANNUAIRE des journaux, revues et publications périodiques parus à Paris; publié par H. Le Soudier. v.18, 22. 1898-1900.ro16.05 A61

BOSTON—Public library.

List of periodicals, newspapers, transactions and other serial publications currently received in the principal libraries of Boston and vicinity. 1897.....qr016.05 B64

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Catalogue of periodicals and newspapers. 1899.....r016.05 C21

CHICAGO LIBRARY CLUB, *comp.*

List of serials in public libraries of Chicago and Evanston, corrected to Jan. 1901. 1901.....r016.05 C43

STEIGER, Ernst, *comp.*

Periodical literature of the United States of America, with index and appendices. 1873.....qr016.05 S81

UNITED STATES—Library of Congress.

Union list of periodicals, transactions and allied publications currently received in the principal libraries of the District of Columbia. 1901.....qr016.05 U25

JAMES, Edmund Janes, & Loveless, M. J. *comp.*

Bibliography of newspapers published in Illinois prior to 1860. 1899. (Illinois state historical library. Publications, v.1.).....r016.07 J16

UNITED STATES—Library of Congress.

Check list of American newspapers in the Library of Congress. 1901.....qr016.07 U25

WISCONSIN HISTORICAL SOCIETY.

Annotated catalogue of newspaper files in the library; *comp.* by E. H. Blair. 1898.....r016.07 W81

016.09 Bibliography of book rarities

CARNEGIE LIBRARY OF PITTSBURGH.

Descriptive list of some old books and mss, some fine editions and fine bindings and some books on printing, exhibited Nov. 5–Dec. 31, 1896. 1896.....r016.09 C21

QUARITCH, Bernard, *comp.*

Catalogue of the monuments of the early printers in all countries, offered for cash by Quaritch. 1888.....r016.093 Q18
Contents: Germany and the Low countries.—Italy.—France.—Spain, Portugal, north and east Europe, America and the East.—England.

ROSENTHAL, Jacques, *comp.*

Incunabula typographica; catalogue d'une collection d'incunables décrits et offerts aux amateurs à l'occasion du cinquième centenaire de Guttenberg. 1900.....r016.093 R72

BRITISH MUSEUM.

Catalogue of books in the library printed in England, Scotland and Ireland, and of books in English printed abroad, to 1640. 3v. 1884.....r016.094 B75

GOLDSMID, Edmund, *comp.*

Complete catalogue of all the publications of the Elzevier presses at Leyden, Amsterdam, The Hague and Utrecht, with introduction, notes and appendix containing a list of all works, whether forgeries or anonymous publica-

- tions, generally attributed to these presses. 3v. in 1.
1886-88. (*Bibliotheca curiosa*). r016.094 G58
- HARSNETT LIBRARY, Colchester, England.
Catalogue. 1888. q r016.094 H31
Life of Bishop Harsnett; p.5-34.
- RENOUARD, Antoine Augustin.
Annales de l'imprimerie des Alde; ou, Histoire des trois Manuce et de leurs éditions, & supplément. 2v. 1803-12. . r016.094 R34
Bibliographical sketch of the Aldine press at Venice; tr. and abridged from Renouard's *Annales de l'imprimerie des Aldes*, and revised and corrected by Edmund Goldsmid. 3v. in 1. 1887. r016.094 R34b
- GROLIER CLUB, New York.
Catalogue of an exhibition of illuminated and painted manuscripts, together with a few early printed books with illuminations. 1892. r016.096 G93
Bibliography of mss, p.57-64.
- KRISTELLER, Paul.
Early Florentine woodcuts, with an annotated list of Florentine illustrated books. 1897. q r016.096 K42

016.178 Bibliography of tobacco

- BRAGGE, William.
Bibliotheca nicotiana; a catalogue of books about tobacco, with a catalogue of objects connected with the use of tobacco in all its forms. 1880. q r016.178 B68

016.2 Bibliography of religion

- HURST, John Fletcher, *comp.*
Literature of theology; a classified bibliography. 1896. . r016.2 H95
- DORE, John Read.
Old Bibles; account of the early versions of the English Bible. 1888. r016.22 D73
- STEVENS, Henry, *comp.*
Bibles in the Caxton exhibition, 1877; or, A bibliographical description of nearly 1000 representative Bibles in various languages, chronologically arranged. 1878. r016.22 S84
- WRIGHT, John.
Early Bibles of America. 1894. r016.22 W93
Early prayer books of America. 1896. r016.264 W93
Bibliography, p.428-480.
- BOWERMAN, George Franklin, *comp.*
Selected bibliography of the religious denominations of the United States, with a list of the most important Catholic works of the world, as an appendix, *comp.* by J. H. McMahon. 1896. r016.28 B66
- SMITH, Joseph, *bookseller, comp.*
Bibliotheca anti-Quakeriana; or, A catalogue of books adverse to the Society of Friends. 1873. q r016.289 S65

D'OUGE, Benjamin L. *comp.*

Helps to the study of classical mythology for the lower

grades and secondary schools. 1899.....r016.291 D73

Under each mythological name and legend are given references to books and magazines, subdivided as they consider the subject from the standpoint of art, religion or literature. Contains a list of books indexed, a table of contents and a very full index. Helpful for both teachers and students.

r016.3 Bibliography of sociology

BOWKER, Richard Rogers, & Iles, George, *ed.*

Reader's guide in economic, social and political science.

1891.r016.3 B66

ARMOR, William Crawford, *comp.*

Scotch-Irish bibliography of Pennsylvania. 1896.....r016.325 A73

UNITED STATES—Library of Congress.

List of books, with references to periodicals, relating to the theory of colonization, government of dependencies, protectorates and related topics; comp. by A. P. C. Griffin. 1900.....r016.325 U25

FAIRCHILD, Mrs Mary Salome (Cutler), & Lord, I. E.

Scientific study of philanthropy, with Outline of study and bibliography. 1898.....q016.33 F15

Being a reprint from the "American journal of sociology," v.3, 1898.

MAROT, Helen, *comp.*

Handbook of labor literature. 1899.....r016.33 M39

Offers the more important literature of the labor question, under specific headings, with author, publisher, price, etc. Particular attention has been given to government publications and pamphlet literature. In the annotations valuation of the books has been generally avoided, the notes simply explaining more fully than the titles, the contents of the books. The periodical literature, which is very important, has been omitted, as it is already covered by Poole's index and its continuations. Contains a list of labor periodicals.

COLLEGE SETTLEMENTS ASSOCIATION.

Bibliography of college, social, university and church settlements; comp. by Mrs C. W. Montgomery for the College settlements association. 1900.....r016.331 C69

SAWYER, Ellen M. *comp.*

Bibliography of works on taxation in the State library of Massachusetts. 1898. (Massachusetts—State library. Special bulletin.).....r016.336 S27

UNITED STATES—Library of Congress.

List of books, with references to periodicals, relating to trusts; comp. by A. P. C. Griffin. 1900.....r016 U25

Bound with other pamphlets.

The same. Ed. 2 enl. 1902.....q016.338 U25

PENNSYLVANIA—State library.

Catalogue of law books; issued under the supervision of

G. E. Reed, prepared by W. W. Chisolm. 1899.....q016.34 P39

TOWER, Charlemagne.

Charlemagne Tower collection of American colonial laws.

1890.q016.34 T65

FOSTER, William Eaton, *comp.*

References to the constitution of the United States. 1890.
 (Economic tracts.).....r016.342 F81

BROOKS, Robert Clarkson, *comp.*

Bibliography of municipal problems and city conditions.
 1901.r016.352 B77
 Published originally, with a slightly different title, as v.1, no.1 of
 "Municipal affairs."
 This, the 2d ed., was issued as v.5, no.1 of the same periodical.

GROSS, Charles, *comp.*

Bibliography of British municipal history, including guilds
 and parliamentary representation. 1897. (Harvard his-
 torical studies.).....r016.352 G93

COLUMBIA UNIVERSITY, New York—Library.

Books on education in the libraries of Columbia university.
 1901. (Library bulletins, no.2.).....qr016.37 C72

HALL, Granville Stanley, & Mansfield, J. M. *comp.*

Hints toward a select and descriptive bibliography of
 education. 1893.....r016.37 H17
 "The work is so comprehensive, and the result of such painstaking labor,
 that it will be found of great value to every student and reader in the
 broad field of pedagogics." *Science*.

MONROE, Will Seymour, *comp.*

Bibliography of education. 1897. (International education
 series.)r016.37 M83
 Does not include text-books nor references to articles in periodicals.

UNITED STATES—Education bureau.

Publications, 1867–1890, with subject index. 1891.....r016.37 U25
 Reprint of chapter 35 of the Report of the commissioner of education
 for 1888–89.

AMERICAN MANUAL TRAINING ASSOCIATION, *comp.*

Bibliography of manual training. 1898.....r016.371 A51

WILSON, Louis N. *comp.*

Bibliography of child study. 1898.....r016.372 W76
 Appeared in the "Pedagogical seminary," v.5, p.541–589.

UNITED STATES—Library of Congress.

List of books, with references to periodicals, on mercantile
 marine subsidies; comp. by A. P. C. Griffin. 1900....r016.38 U25

UNITED STATES—Documents office.

Bibliography of United States documents relating to inter-
 oceanic communication across Nicaragua, Isthmus of
 Panama, Isthmus of Tehuantepec, etc. 1899.....r016 U25

UNITED STATES—Library of Congress.

List of books and of articles in periodicals relating to inter-
 oceanic canal and railway routes; comp. by H. A. Mor-
 rison. 1900. (56th cong. 1st sess. Senate. Doc.no.59.)...r016 U25
Contents: Nicaragua route.—Panama, Darien, and the valley of the
 Atrato routes.—Tehuantepec and Honduras routes.—Suez canal.
 Contains, as an appendix, a revised and enlarged edition of the "Bibliog-
 raphy of the United States public documents relating to interoceanic
 communication," issued by the superintendent of documents.
 Bound with other pamphlets.

016.4 Bibliography of language

TRÜBNER & CO.

Catalogue of dictionaries and grammars of the principal languages and dialects of the world. 1882.....r016.4 T77

BRAUNHOLTZ, Eugen Gustav Wilhelm.

Books of reference for students & teachers of French; a critical study. 1901.....r016.44 B71

016.5 Bibliography of science

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Catalogue of the Phipps scientific collection. 1893.....r016.5 C21

ROYAL SOCIETY OF LONDON, *comp.*

Catalogue of scientific papers, 1800-1883. v.1-12. 1867-1902.qro16.5 R81
v.1-6. 1800-1863. v.7-8. 1864-1873. v.9-11. 1874-1883.
v.12. Supplementary volume.

SCUDDER, Samuel Hubbard, *comp.*

Catalogue of scientific serials of all countries, including the transactions of learned societies in the natural, physical and mathematical sciences, 1633-1876. 1879. (Harvard university—Library. Special publications.).....r016.5 S43

UNITED STATES—Coast and geodetic survey.

Bibliography; descriptive catalogue of publications relating to the Coast and geodetic survey, 1807 to 1896, and to U. S. standard weights and measures, 1790 to 1896. 1898. (Special publication no.2.).....r016.5 U25

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Catalogue of electricity. 1895.....r016.823 C21
Bound with its "Catalogue of fiction."

SCHMIDT-HENNIGER, Friedrich, *comp.*

Elektrotechnikers literarisches auskunftsbuch; die litteratur der elektrotechnik, elektricität, elektrochemie, elektrometallurgie, des magnetismus, der telegraphie, telephonie, blitzschutzvorrichtung, Röntgen-strahlen, sowie der acetylen- und carbid-industrie der jahre 1884 bis 1900. 1900.....r016.537 S35

BOLTON, Henry Carrington, *comp.*

Select bibliography of chemistry; first supplement, 1492-1897. 1899. (Smithsonian miscellaneous collections.).....r016.54 C42
The bibliography which this supplements, forms v.36 of the Smithsonian miscellaneous collections. There is a second supplement covering academic dissertations from 1492 to 1897, which forms v.41 of the same set. Both of these are in the Library, call number, r506 S66m.

MARGERIE, Emmanuel de, *comp.*

Catalogue des bibliographies géologiques. 1896.....qro16.55 M38

UNITED STATES—Geological survey.

List of the publications of the survey. 1898.....r016.55 U25
The same. 1900.....r016.55 U251

IRON CITY MICROSCOPICAL SOCIETY.

Manuscript catalogue of the library of the society....qro16.578 I28

DECAISNE, Joseph.

Catalogue de la bibliothèque de M. Decaisne. 1883....r016.58 D35

JACKSON, Benjamin Daydon, *comp.*

Guide to the literature of botany, including 6000 titles not given in Pritzel's Thesaurus. 1881. (Index society.

Publications.)r016.58 J12

KEW GARDENS.

Catalogue of the library of the Royal botanic gardens, Kew.

1899. (Kew gardens. Bulletin of miscellaneous information, additional series.).....r016.58 K23

WHELDON, John, *comp.*

Botanical catalogue. 1886.....r016.58 W61

DEBY, Julien, *comp.*

Bibliography of the microscope and micrographic studies; being a catalogue of books and papers in his library.

v.3. 1882.....q016.589 D35

v.3. Diatomaceæ.

BIBLIOGRAPHIA zoologica. v.3-date. 1898-date.....r016.59 B47

Published as a supplement to "Zoologischer anzeiger."

UNITED STATES—Entomology division.

Bibliography of the more important contributions to American economic entomology. pt.1-5, 7, in 3v. 1890-

1901.r016.595 U25

v.1, pt.1-3. The more important writings of Benjamin Dann Walsh and Charles Valentine Riley; comp. by Samuel Henshaw.

v.2, pt.4-5. The more important writings of government and state entomologists and of other contributors to the literature of American economic entomology; comp. by Samuel Henshaw.

v.4, pt.7. The more important writings published between Dec. 31, 1896 and Jan. 1, 1900; comp. by Nathan Banks.

016.6 Bibliography of useful arts

HAFERKORN, Henry Ernest, & Heise, Paul, *comp.*

Handy lists of technical literature; reference catalogue of books printed in English from 1880 to 1888; to which is added a select list of books printed before 1880 and still kept on publishers' and jobbers' lists. 1890-93.....r016.6 H13

SZCZEPANSKI, Fritz von, *ed.*

Bibliotheca polytechnica; a classified catalogue of all books, annuals and journals published in America, England, France and Germany, including their relation to legislation, hygiene and daily life, 1889. v.1. 1890.....r016.6 S99

PENNSYLVANIA HOSPITAL, Philadelphia.

Catalogue raisonné of the medical library. 1857.....r016.61 P39

UNITED STATES—Surgeon-general's office.

Index-catalogue of the library; authors and subjects. 1st.

ser. 16v.; 2d ser. v.1-6. 1880-1901.....q016.61 U25

WARING, Edward John, *comp.*

Bibliotheca therapeutica; or, Bibliography of therapeutics, chiefly in reference to articles of the materia medica. 2v.

1878-79. (New Sydenham society. Publications.)..r016.615 W22

AMERICAN SOCIETY OF CIVIL ENGINEERS.

Catalogue of the library, June 1900. 1900.....r016.62 A51

INSTITUTION OF CIVIL ENGINEERS.

Catalogue of the library. 1866.....ro16.62 I24

INSTITUTION OF MECHANICAL ENGINEERS.

Library catalogue, 1890.....ro16.62 I247

BARNETT, Claribel Ruth, *comp.*

References to the literature of the sugar beet, exclusive of works in foreign languages. 1897. (United States—Agriculture, Department of. Library bulletin no.16.)...qro16.63 B25

CLARK, Josephine A. *comp.*

Reference list of publications relating to edible and poisonous mushrooms. 1898. (United States—Agriculture, Department of. Library bulletin no.20.).....ro16.63 U25

HASSE, Adelaide Rosalie, *comp.*

List of publications of the U. S. department of agriculture from 1841 to June 30, 1895, inclusive. 1896. (United States—Agriculture, Department of. Library bulletin no.9.).....ro16.63 U25

THOMPSON, George Fayette, *comp.*

Index to authors, with titles of their publications, appearing in the documents of the U. S. department of agriculture, 1841 to 1897. 1898. (United States—Agriculture, Department of. Bulletin of the Division of publications, no.4.).....ro16.63 U25
The three preceding pamphlets are bound together.

Index to literature relating to animal industry in the publications of the Department of agriculture, 1837-1898. 1900. (United States—Agriculture, Department of. Bulletin of the Division of publications, no.5.).....ro16.63 T38

UNITED STATES—Agriculture, Department of.

Catalogue of the periodicals and other serial publications, exclusive of U. S. government publications, in the library of the U. S. department of agriculture; prepared under the direction of J. A. Clark. 1901. (Library bulletin no.37.).....ro16.63 U25c

List of publications relating to forestry in the department library. 1898. (Library bulletin no.24.).....ro16.63 U25

Supplement to the general index of the agricultural reports for 1877 to 1885, inclusive.....ro16.63 U25
Bound with the above.

UNITED STATES—Experiment stations office.

Some books on agriculture and sciences related to agriculture published 1896-1898. 1898. (Circular no.38.)...ro16.63 U253

BOWKER, Richard Rogers, *comp.*

Handy list of American publishers, as entered in the American catalogue, 1884-90. 1890.....ro16.655 B66

CASPAR, Carl Nicolaus, *comp.*

Caspar's directory of the American book, news and stationery trade. 1889.....qro16.655 C25

HOE, Richard March.

Literature of printing; a catalogue of the library illustrative of the history and art of typography of R. M. Hoe. 1877.ro16.655 H67

LEE, John W. M. *comp.*

Bibliography of the Baltimore and Ohio rail road company,
1827 to 1879. 1879.....r016.656 L53

GARÇON, Jules, *comp.*

Répertoire général, ou dictionnaire méthodique de bibliographie des industries tinctoriales et des industries annexés, depuis les origines jusqu'à la fin de l'année 1896; technologie et chimie. 3v. 1900-01.....qro16.66 G17
v.1. Introduction et avertissement général.—Notice sur les sources bibliographiques du dictionnaire.—Tables.
v.2. Accidents de fabrication.—Kermès.
v.3. Laboratoire.—Zinc.

016.7 Bibliography of fine arts

HESSLING, Bruno, *pub.*

Verlagskatalog. 1899.....qro16.7 H49

HIERSEMANN, Karl W. *comp.*

New series of catalogues [no.108-115]; the fine arts; books and prints on sale by K. W. Hiersemann. 1893.....,r016.7 H52

ILES, George, *ed.*

Annotated bibliography of fine art. 1897.....qro16.7 I22

Contents: Painting, sculpture, architecture, arts of decoration and illustration, by Russell Sturgis.—Music, by H. E. Krehbiel.

LEWINE, J. *comp.*

Bibliography of 18th century art and illustrated books; a guide to collectors of illustrated works in English and French of the period. 1898.....r016.7 L67

016.72 Bibliography of architecture

BATSFORD, Herbert, *comp.*

Reference books on architecture and decoration, with hints on the formation of an architectural library. 1895..bo16.72 B31

BOSTON—Public library.

Catalogue of the books relating to architecture, construction and decoration in the library, Nov. 1, 1894. 1894..qb016.72 B64

CARNEGIE LIBRARY OF PITTSBURGH.

Catalogue of the J. D. Bernd department of architecture. 1898.bo16.72 C21

COLUMBIA UNIVERSITY, New York—Library.

Catalogue of the Avery architectural library; a memorial library of architecture, archæology and decorative art. 1895.qb016.72 C72

LIVERPOOL, England—Free public libraries.

Hand-list of books on architecture in the Reference department. 1894.....bo16.72 L74

Hand-list of books on the decorative arts in the Reference department. 1899.....bo16.72 L74
Bound with the above.

016.78 Bibliography of music

BECKER, Carl Ferdinand, *comp.*

Systematisch-chronologische darstellung der musikalischen
literatur. 2v. in 1. 1836-39.....qro16.78 B36
Die tonwerke des 16. und 17. jahrhunderts. 1855.....qro16.78 B36t

BREITKOPF & HÄRTEL, *pub.*

Verzeichniss des musikalien-verlages von Breitkopf &
Härtel. 1875.....ro16.78 B72

BURNEY, Charles.

Catalogue of his library; sold by auction, June 1814.
1814.ro16.78 B93
The prices at which the books were sold are given in ink on the margins.

ENGEL, Carl, *comp.*

Descriptive catalogue of the musical instruments in the
South Kensington museum. 1874.....qro16.78 E63

ENGEL, Carl.

Literature of national music. 1879.....ro16.78 E63l
"A reprint of an essay published in instalments from July, 1878, to
March, 1879, in The Musical Times of London, [v.19]. It is to be
commended to the student of folk-music as an aid in the most diffi-
cult feature of his study—the procurement of evidence and authori-
ties." H. E. Krehbiel.

FORKEL, Johann Nicolaus, *comp.*

Allgemeine literatur der musik. 1792.....ro16.78 F77

HANDBUCH der musikalischen litteratur. 6v. in 1.

1818-23.ro16.78 H23

MATTHEW, James Ebenezer.

Literature of music. 1896. (Book-lover's library.)....ro16.78 M47

RIANO, Juan Facundo.

Critical and bibliographical notes on early Spanish music.
1887.ro16.78 R38

Bibliography of fine arts—Miscellaneous

GAYLEY, Charles Mills, & Scott, F. N. *comp.*

Guide to the literature of æsthetics. 1890.....ro16.701 G25

NEW YORK (city), PUBLIC LIBRARY.

Handbook of the S. P. Avery collection of prints and art
books in the New York public library. 1901.....ro16.76 N26

SINGER, Hans Wolfgang, *comp.*

Sammlung Lanna Prag; das kupferstichkabinet wissen-
schaftliches verzeichniss. 2v. 1895.....ro16.76 S61

LOWE, Robert W. *comp.*

Bibliographical account of English theatrical literature,
from the earliest times to the present day. 1888....ro16.792 L95
"Deals with theatrical literature: the wider field of dramatic literature
being touched upon only when in direct connection with theatres or
actors. Thus the mass of critical and speculative Shakspearean liter-
ature is excluded; and plays find no place in my scheme except where
there is published with them historical or critical matter." Preface.

WESTWOOD, Thomas, & Satchell, Thomas, *comp.*

Bibliotheca piscatoria; a catalogue of books on angling, the fisheries and fish-culture, with bibliographical notes.

1883.ro16.799 W57

o16.8 Bibliography of literature

COLUMBIA UNIVERSITY, New York—Library.

List of books chiefly on the drama and literary criticism.

1897. (Publications, no.1.).....qro16.8 C72

DIXSON, Mrs Zella (Allen), *comp.*

Comprehensive subject index to universal prose fiction.

1897.ro16.8 D64

This work by the associate librarian of the University of Chicago is an arrangement into an alphabetical subject list of works of fiction, foreign as well as English, which are founded on fact, historical, physical, psychological or moral. It does not, however, include works founded on fact where the facts have been so misrepresented as to mislead rather than to inform the reader.

GAYLEY, Charles Mills, & Scott, F. N.

Introduction to the methods and materials of literary criticism, the bases in aesthetics and poetics. 1899.....o16.8 G25

Contents: Nature and function of literary criticism.—Principles of art.—Principles of literature.—The theory of poetry.—The principles of versification.

"For libraries and for all students of the subject it will prove an invaluable book of reference. This is an age of bibliographies, but we need more bibliographies prepared, as this is, by specialists who are competent to estimate, classify, and report on the books listed. The plan here pursued involves a discussion of methodology, statement of problems, subdivision of topics, and a classified and annotated bibliography under each of the general heads." *Nation*, 1899.

INDIANAPOLIS—Public library.

Finding-list of books in the classes of poetry and the

drama, literature and polygraphy. 1891.....qro16.823 I24

Bound with other pamphlets.

BROWN UNIVERSITY—Library.

Catalogue of American poetry; duplicates from the Harris-

Anthony collection in Brown university, to be sold at

auction, April 10-12, 1901. 1901.....qro16.81 B78

FOLEY, Patrick Kevin, *comp.*

American authors, 1795-1895; a bibliography of first and

notable editions, chronologically arranged. 1897....ro16.81 F71

STOCKBRIDGE, John Calvin, *comp.*

The Anthony memorial; a catalogue of the Harris col-

lection of American poetry, with biographical and bibliographical notes. 1886.....qro16.81 S86

WEGELIN, Oscar, *comp.*

Early American fiction, 1774-1830; a compilation of the

titles of American novels written by writers born or

residing in America and published previous to 1831.

1902.ro16.813 W43

HODGKINS, Louise Manning.

Guide to the study of 19th century authors. 1898.....ro16.82 H66

Contents: Scott.—Lamb.—Wordsworth.—Macaulay.—Coleridge.—Shelley.—Keats.—Byron.—Thackeray.—Dickens.—Mrs Browning.—Brown- ing.—Tennyson.—Rossetti.—Eliot.—Carlyle.—Ruskin.—Arnold.—Irving.—Bryant.—Hawthorne.—Emerson.—Longfellow.—Whittier.—Holmes.—Lowell.

JAMES, Charles Canniff, *comp.*

Bibliography of Canadian poetry (English). 1899. (Victoria university library. Publications, v.1.).....ro16.821 J16

BATES, Katharine Lee, & Godfrey, L. B. *comp.*

English drama; a working basis. 1896.....ro16.822 B31

GREG, Walter Wilson, *comp.*

List of English plays written before 1643 and printed before 1700. 1900.....ro16.822 G86

BOSTON—Public library.

Catalogue of English fiction and books for the young.

1893.qro16.823 B64

BOWEN, Herbert Courthope, *comp.*

Descriptive catalogue of historical novels. 1882.....ro16.823 B66

BROOKLINE, Mass.—Public library.

Catalogue of English prose fiction, Jan. 1895. 1895.....ro16.823 B77

The same, Jan. 1901. 1901.....ro16.823 B77c

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Catalogue of fiction; authors, titles. 1895.....ro16.823 C21

Catalogue of fiction, including folk-lore, mythology and juvenile books. 1895.....ro16.823 C21

Catalogue of French books. 1895.....ro16.823 C21

Catalogue of German books. 1895.....ro16.823 C21

These four catalogues are bound together.

CARNEGIE LIBRARY OF PITTSBURGH.

Catalogue of English prose fiction. 1898.....ro16.823 C216

GRISWOLD, William MacCrillis, *comp.*

Descriptiv list of novels dealing with ancient history.

1895.ro16.823 G93de

Descriptiv list of novels dealing with the history of North

America. 1895.....ro16.823 G93d

This is the peculiar spelling adopted for a time by the author.

Descriptive list of British novels. 1891.....ro16.823 G93

Descriptive list of international novels. 1891.....ro16.823 G93

Descriptive list of novels dealing with American city life.

1891.ro16.823 G93

Descriptive list of novels dealing with American country

life. 1890.....ro16.823 G93

Descriptive list of novels dealing with life in France.

1892.ro16.823 G93

Descriptive list of novels dealing with life in Germany.

1892.ro16.823 G93

Descriptive list of novels dealing with life in Italy. 1892. .ro16.823 G93

Descriptive list of novels dealing with life in Norway.

1892.ro16.823 G93

Descriptive list of novels dealing with life in Russia.

1892.ro16.823 G93

Descriptive list of romantic novels. 1890.....ro16.823 G93

The above 10 pamphlets are bound together.

HARTFORD—Public library.

Author-list of all novels, short stories, selections and humorous works, also of all other books added during 1892.

1893.ro16.823 H32

INDIANAPOLIS—Public library.

Finding-list of books in the classes of English prose fiction
and juvenile fiction. 1892.....qro16.823 I24

NEW BEDFORD, Mass.—Free public library.

Catalog of English prose fiction, Aug. 1, 1895. 1895..ro16.823 N26

SALEM, Mass.—Public library.

Class list no.1; fiction. 1895.....ro16.823 S16

SAN FRANCISCO FREE PUBLIC LIBRARY.

Classified English prose fiction, including translations and
juvenile works. 1891.....qro16.823 S22

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Catalogue of German fiction. 1897.....ro16.833 C21c

KLEMMING, Gustaf Edvard, *comp.*

Sveriges dramatiska litteratur till 1875; bibliografi.
1863-79.ro16.839 K31

BOSTON—Public library.

Catalogue of the Spanish library and of the Portuguese
books bequeathed by George Ticknor to the library.
1879.qro16.86 B64

MEADER, Clarence Linton, *ed.*

List of books recommended for a high school classical li-
brary by a committee of the Michigan schoolmasters'
club, 1897.....o16.87 M55
The same. 1897.....ro16.87 M55

o16.9 Bibliography of geography and history

Bibliography of geography

BOUCHER de la RICHARDERIE, Gilles, *comp.*

Bibliothèque universelle des voyages; ou, Notice raisonnée
de tous les voyages anciens et modernes, avec des ex-
traits. 6v. 1808.....ro16.91 B65

MILL, Hugh Robert, *comp.*

Hints to teachers and students on the choice of geographi-
cal books for reference and reading, with classified lists.
1897.ro16.91 M68

RITCHIE, John, *comp.*

List of the books in the English language on travel, ex-
ploration and mountaineering, published within the year
ending Aug. 31, 1897. 1897. (Boston scientific society.
Occasional publications, no.2.).....ro16.91 R49

ROYAL GEOGRAPHICAL SOCIETY.

Classified catalogue of the library to Dec. 1870. 1871....ro16.91 R81

UNITED STATES—Library of Congress.

Alaska and the northwest part of North America, 1588-
1898; maps in the Library of Congress; comp. by P. L.
Phillips. 1898.....ro16 U25
Bound with other pamphlets.
List of maps and views of Washington and District of

- Columbia in the Library of Congress; comp. by P. L. Phillips. 1900. (56th cong. 1st sess. Senate. Doc. no.154.)ro16 U25
Bound with other pamphlets.
- List of maps of America in the Library of Congress, preceded by a list of works relating to cartography, by P. L. Phillips. 1901.....qro16.912 U25

Bibliography of history

ADAMS, Charles Kendall.

Manual of historical literature. 1889.....ro16.9 A21

INDIANAPOLIS—Public library.

Finding-list of books in the classes of biography, history and travels. 1890.....qro16.823 I24
Bound with other pamphlets.

o16.942 Bibliography of English history

ALLEN, William Francis, *comp.*

Reader's guide to English history, with supplement extending the plan to other countries. 1898.....ro16.942 A42

GARDINER, Samuel Rawson, & Mullinger, J. B.

Introduction to the study of English history. 1894....ro16.942 G17

GROSS, Charles, *comp.*

Sources and literature of English history, from the earliest times to about 1485. 1900.....ro16.942 G93

A systematic survey of the printed materials relating to the political, legal, social and economic history of England, Wales and Ireland. Scotland, except as she influenced the course of English history, is omitted, because in the period considered her government and institutions were entirely foreign to those of England. Material which is worthless or obsolete is omitted, and most space is devoted to original sources. Many brief explanatory and critical notes increase the value of this work which the London "Athenæum" (1900) considers "second to no bibliography of national history in the world."

JOHNSTON, William Dawson, *comp.*

Annotated titles of books on English history published in 1897-1899. 3v. in 1. 1898-1900.....qro16.942 J37

o16.97 Bibliography of American history

BIBLIOTHECA Americana; a catalogue of a valuable collection of books and pamphlets illustrating the history & geography of North & South America and the West Indies; on sale by A. R. Smith. 1874.....ro16.97 B47

BOON, E. P.

Catalogue of books and pamphlets principally relating to America. 1870.....ro16.97 B63

BRINLEY, George.

Catalogue of his American library, with index. 6v. 1878-93.ro16.97 B75

CLARKE, (Robert), & CO. *pub.*

Bibliotheca Americana; catalogue of a valuable collection of books and pamphlets relating to America, 1876, 1878, 1879, 1893. 4v. in 2. 1876-93.....ro16.97 C53

DEANE, Charles.

- Catalogue of the private library of Charles Deane; comprising a collection of rare Americana, including early voyages and discoveries, to be sold at auction, March 1898. 2v. in 1. 1898.....r016.97 D34
A pamphlet, giving the prices realized at the sale, is bound with the catalogue.

FIELD, Thomas Warren.

- Catalogue of his library. 1875.....r016.97 F45
Collection of books relative to the American Indians.

GEORGE, (William), SONS, *pub.*

- New World book list. 1900.....r016.97 G31
Annotated sale catalogue of Americana.

GRIFFIN, Appleton Prentiss Clark, *comp.*

- Bibliography of American historical societies. 1896....r016.97 G89
From the annual report of the American historical association for 1895.

GROLIER CLUB, New York.

- Catalogue of early printed books relating to America, exhibited at the Grolier club, 1888. 1888.....r016.97 G93

HARPER, Francis Parego.

- Bibliotheca Americana; priced catalogue of a remarkable collection of scarce and out-of-print books relating to the discovery, settlement and history of the western hemisphere; offered for sale by Francis P. Harper. 1901..r016.97 H28

LARNED, Josephus Nelson, *ed.*

- Literature of American history; a bibliographical guide in which the scope, character and comparative worth of books in selected lists are set forth in brief notes by critics of authority. 1902. (American library association annotated lists.).....qro16.97 L32
"Sources," p.1-20.

LECLERC, Charles, *comp.*

- Bibliotheca Americana; histoire, géographie, voyages, archéologie et linguistique des deux Amériques et des Îles Philippines. 1878.....qro16.97 L49

PERKINS, Frederic Beecher, *comp.*

- Check list for American local history, reprinted with additions from the bulletins of the Boston public library. 1876.....r016.97 P43

SABIN, Joseph, *comp.*

- Catalogue of the books, manuscripts and engravings belonging to William Menzies of New York. 1875....r016.97 S11c
Dictionary of books relating to America. v.1-20. 1868-91..r016.97 S11

SMITH, John Russell, *comp.*

- Bibliotheca Americana; a catalogue of books, pamphlets, manuscripts, maps, engravings and engraved portraits illustrating the history and geography of North and South America and the West Indies, on sale by J. R. Smith. 1865.....r016.97 S65

STEVENS, Henry, *comp.*

- Bibliotheca historica; or, A catalogue of books and manuscripts relating to the history and literature of North and South America. 1870.....r016.97 S84b

Catalogue of the first portion of the collections of rare books and manuscripts relating to the history and literature of America, sold by Sotheby, Wilkinson & Hodge. 1881. (Stevens's historical collections.).....qro16.97 S84
Includes "Lot 1269, Mr Henry Stevens's Franklin collection of manuscripts and printed books," p.159-176.

Historical nuggets; bibliotheca Americana; or, A descriptive account of my collection of rare books relating to America. 2v. 1862.....ro16.97 S84h

TERNAUX-COMPANS, Henri, *comp.*

Bibliothèque américaine; ou, Catalogue des ouvrages relatifs à l'Amérique qui ont paru depuis sa découverte jusqu'à 1700. 1837.....qro16.97 T31

WRIGHT, James Osborne, *comp.*

Catalogue of the American library of S. L. M. Barlow. 1889.qro16.97 W93

GAGNON, Philéas.

Essai de bibliographie canadienne; inventaire d'une bibliothèque comprenant imprimés, manuscrits, estampes, etc. relatifs à l'histoire du Canada et des pays adjacents, avec des notes bibliographiques. 1895.....qro16.971 G13

WRONG, George McKinnon, & Langton, H. H. *ed.*

Review of historical publications relating to Canada, 1896-date. v.1-date. 1897-date. (Toronto university. Studies in history.).....qro16.971 W94

UNITED STATES—Library of Congress.

List of books relating to Cuba, including references to collected works and periodicals; comp. by A. P. C. Griffin, with Bibliography of maps, by P. L. Phillips. 1898. (56th cong. 2d sess. Senate. Doc. no.161.).....ro16 U25
Bound with other pamphlets.

List of books, with reference to periodicals, on Porto Rico; comp. by A. P. C. Griffin. 1901.....qro16.972 U25
Bound with the following.

List of books, with references to periodicals, on the Danish West Indies; comp. by A. P. C. Griffin. 1901.....qro16.972 U25

016.973-016.977 Bibliography of United States history

GRIFFIN, Appleton Prentiss Clark, *comp.*

Index of the literature of American local history in collections published in 1890-1895. 1896.....ro16.973 G89

"This index supplements that contributed by the compiler to the *Bulletins of the Public Library of the City of Boston*, and published in 1889 as a volume of the *Bibliographies of Special Subjects* of that institution." *Preface.*

LUDEWIG, Hermann Ernst, *comp.*

Literature of American local history. 1846.....ro16.973 L97

SPARKS, Edwin Erle, *comp.*

Topical reference lists in American history, with lists in

English constitutional history. 1900.....016.973 S73

The same. 1900.....ro16.973 S73

WINSOR, Justin, *comp.*

Reader's handbook of the American revolution. 1893...ro16.973 W79

"An admirable little guide-book for the use of students of the Revolutionary period of our history. Beginning at the time of the first discontents with British rule, the author indicates where the best information on each point is to be gathered." *C. K. Adams.*

FLAGG, Charles Allcott, & Jennings, J. T. *comp.*

Bibliography of New York colonial history. 1901.

(New York (state)—Library. Bulletin; bibliography, no.24.)ro16.974 F59

GILMAN, Marcus Davis, *comp.*

Bibliography of Vermont. 1897.....qro16.974 G42

GRIFFIN, Appleton Prentiss Clark, *comp.*

Bibliography of the historical publications issued by the New England states. 1895.....ro16.974 G89b
Reprinted from the "Publications of the Colonial society of Massachusetts," v.3.

PENNSYLVANIA—State library.

Check-list of Pennsylvania county, town and township histories, 1794-1892. 1892.....ro16.974 P39

THOMSON, Peter G. *comp.*

Bibliography of Ohio, with prices at which many of the books have been sold since 1860. 1880.....qro16.977 T38

Bibliography of history—Miscellaneous

GUIGARD, Joannis, *comp.*

Bibliothèque héraldique de la France. 1861.....ro16.929 G96

GOODRICH, Arthur L.

Topics on Greek history; intended for use in secondary schools. 1898.....ro16.938 G62
List of authors and their works, p.5-8; "Historical fiction, tales, poetry and drama relating to ancient Greece," p.51-52.
Presents a full and systematic scheme for the study of Greek history by the topical method, each topic being accompanied by ample references.

CORNELL UNIVERSITY—Library.

Catalogue of the historical library of Andrew Dickson White. 2v. in 1. 1889-94.....qro16.94 C82
v.1. The Protestant reformation and its forerunners.
v.2. The French revolution.

GETCHELL, Merle Smith.

The study of mediaeval history by the library method. 1897.ro16.94 G33
A series of references to the historical literature relating to the middle ages, arranged by periods.

QUARITCH, Bernard, *pub.*

Catalogue of medieval literature, especially of the romances of chivalry and books relating to the customs, costume, art and pageantry of the middle ages. 1890.....qro16.94 Q18f

FÖRSTER, F.

Kritischer wegweiser durch die neuere deutsche historische litteratur, für studierende und freunde der geschichte. 1900.ro16.943 F78

WENCKSTERN, Friedrich von, *comp.*

Bibliography of the Japanese empire; being a classified list of books, essays and maps, in European languages, relating to Japan, published from 1859-93, to which is added a facsimile-reprint of Leon Pagès *Bibliographie japonaise*. 1895.....qr016.95 W51

UNITED STATES—Library of Congress.

List of books relating to Hawaii, including references to collected works and periodicals; *comp.* by A. P. C. Griffin. 1898.....r016 U25
Bound with other pamphlets.

List of books, with references to periodicals, on Samoa and Guam. 1901.....qr016.996 U25

017 Library and sale catalogues—Classed catalogues

BIRMINGHAM, England—Free libraries.

Catalogues of various branches of the Birmingham free libraries. 1890-97.....r017.1 B48

BOSTON—Public library.

Annual list of new and important books added to the library, selected from the Monthly bulletins, 1896-date.
v.1-date. 1898-date.....qr017.1 B64a
Bulletins, Oct. 1867-date. v.1-date. 1871-date.....qr071.1 B64
v.1, no.2 wanting.
Finding list of books in the West End branch, Jan. 1896.
1896.qr017.1 B64f

BUFFALO LIBRARY.

Finding-list of books and pamphlets, Aug. 1885-July 1896.
3v. in 1. 1885-96.....r017.1 B86
v.1. History, politics, biography, geography, travel and anthropology.
v.2. Belles-lettres, with language, bibliography and general reference books.
v.3. Science and arts, philosophy, religion, social science (except politics) and local history.

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Classified catalogue of the books, except fiction, French and German. 1895.....r017.1 C21
———Supplement, no.1. 1898.

ENOCH PRATT FREE LIBRARY, Baltimore.

Finding list of books and periodicals in the branch libraries,
July 1895. 1895.....r017.1 E65

ERIE—Public library.

Finding list. 1900.....r017.1 E74

KRUPP'SCHE BÜCHERHALLE.

Bücherverzeichniss. 1899.....r017.1 K42

LOWELL, Mass.—City library.

Bulletin, Oct. 1896-date. v.1-date. 1896-date.....r017.1 L95

MILWAUKEE—Public library.

Systematic catalogue. 1885-86.....qr017.1 M72

MOUNT VERNON, N. Y.—Public library.

Class catalogue and author index. 1898.....roi7.1 M94

NEVINS MEMORIAL LIBRARY, Methuen, Mass.

Catalogue. 2v. 1887.....qroi7.1 N25

NEW YORK (state)—Library.

Bulletin, additions, no.1-4, 1891-96. 3v. 1891-97.....qroi7.1 N261

NEW YORK (city) PUBLIC LIBRARY.

Bulletin, 1897-date. v.1-date. 1897-date.....qroi7.1 N2611

NEWARK, N. J.—Free public library.

Finding list; 2d supplement, books added 1893-1896. 1896..roi7.1 N26

OSTERHOUT FREE LIBRARY, Wilkes-Barre, Pa.

Class catalogue and author index. 1889.....roi7.1 O29

The same; first supplement, 1889-1895. 1895.....roi7.1 O29c

PENNSYLVANIA—State library.

Catalogue. 1873.....roi7.1 P39

pt.1. Law books and state papers.

pt.2. Miscellaneous books.

PROVIDENCE, R. I.—Public library.

Monthly bulletin. v.1-5. 1895-99.....qroi7.1 P97

SALEM, Mass.—Public library.

Bulletin. v.1-5. 1893-1901.....qroi7.1 S16

SAN DIEGO, Cal.—Free public library.

Finding list, 1895. 1895.....roi7.1 S21

SCRANTON, Pa.—Public library.

Finding list of the circulating department, Jan. 1893.

1893.qroi7.1 S43

The same; first supplement, Aug. 1894. 1894.....qroi7.1 S43

Bound with the above.

BOOK-PRICES current; a record of the prices at which

books have been sold at auction, Dec. 1886-date. v.1-

date. 1888-date.....roi7.3 B63

—Index, v.1-10, 1887-1896. 1901.

DAUZE, Pierre, *comp.*

Index biblio-iconographique, 1894-1898. 5v. 1895-1901..qroi7.3 D28

v.3-5 title reads "Index bibliographique."

No more published.

LIVINGSTON, Luther S. *comp.*

American book-prices current, 1895-date. v.1-date. 1895-

date.roi7.3 L74

SCOTT, Temple, *comp.*

Book sales, 1895-1898; a record of the most important

books sold at auction. 4v. 1896-99.....roi7.3 S43

No more published.

VOYNICH, W. M. & Edgell, M. A.

A first list of books offered for sale. 1898.....roi7.4 V39

Contents: Americana before 1550. — Americana after 1550. — Asiatic presses. — Bibles and Testaments. — Chess. — Condemned and burned books. — Cookery. — English books before 1640. — Music. — Occult sciences, palmistry, etc.—Poland.—Reformation and reformers.—Early printing before 1500.—Early printing from 1500 to 1525.

018 Library and sale catalogues—Author catalogues

ASTOR LIBRARY, New York.

Catalogue and supplement. 5v. 1857-66.....qro18.1 A85

BRITISH MUSEUM.

Catalogue of printed books. 8iv. 1881-1900.....qro18.1 B75

The same; supplement. 11v. 1900-05.....qro18.1 B75s

GRIFFIN, Appleton Prentiss Clark, *comp.*

Catalogue of the Washington collection in the Boston Athenæum, with the inventory of Washington's books drawn up by the appraisers of his estate, and the later history and present ownership of those not in the Athenæum collection, by W. C. Lane. 2v. 1897-1900.....ro18.1 G89
v.2 is the index, compiled by F. O. Poole.

LENOX LIBRARY, New York.

Duyckinck collection. v.2.....ro18.1 L61

LONDON LIBRARY, London.

Catalogue and appendix; comp. by Robert Harrison. 2v.

1888.qro18.1 L82

Appendix contains lists of contents of long sets and of works printed by societies.

Report and List of books added, 1887/88, 1890/91-1893/94,

1896/97, 1898/99. 1888-99.....ro18.1 L82r

Report for 1896/97 and 1898/99 wanting.

MERCANTILE LIBRARY ASSOCIATION, Pittsburgh.

Catalogue; comp. by G. E. Appleton. 1866.....ro18.1 M63

MICHIGAN—State library.

Catalogue; United States documents, state documents, foreign exchanges. 1898.....ro18.1 M66

MILWAUKEE—Public library.

Finding list of the circulating department; author list, May

1896. 1896.....qro18.1 M72

PENNSYLVANIA—State library.

Catalogue, with supplements for 1860-61. 1859-62.....ro18.1 P39

The same, 1878. 2v. 1878.....qro18.1 P391

The same, 1859. 1859.....ro18.1 P392

SCRANTON, Pa.—Public library.

Author list of books, Aug. 1894. 1894.....qro17.1 S43

SYDNEY, PUBLIC LIBRARY OF NEW SOUTH WALES.

Current supplement to the catalogue, for 1896-98; reference department. 1899.....qro18.1 S98

UNITED STATES—Library of Congress.

Alphabetical catalogue; authors. 1864.....qro18.1 U253

Catalogue of books added, 1866-1869. 3v. 1868-70.....qro18.1 U253c

UNITED STATES—War department.

Alphabetical list of additions made to the library, May

1884-June 1891. 1891.....qro18.1 U25

DALY, Augustin.

Catalogue of the literary and art property gathered by Augustin Daly; to be disposed of at public sale March 19th, 1900 and following days. v.2. 1900.....qro18.2 D17
v.2. Books.

FRENCH, Frederick William.

Catalogue of the collection of dramatic and literary autographs of the late Frederick W. French; to be sold by auction May 2-3, 1901. 1901.....ro18.2 F92

Catalogue of the collection of modern etchings and engravings, rare old mezzotint portraits, miniatures on ivory, water colors, original drawings and oil paintings; to be sold by auction May 10, 1901. 1901.....ro18.2 F92

Catalogue of the library of Frederick W. French of Boston; sold by auction April 23-25, 1901. 1901.....ro18.2 F92
These three catalogues are bound together.

IVES, Brayton.

Catalogue of his collection of books and manuscripts; comprising early printed books, Americana, illustrated French books, works of standard authors, classical manuscripts, missals and books of hours; to be disposed of by auction March 5-7, 1891. 1891.....qro18.2 I33
The prices which the books brought at the auction are marked in the margins.

PHILES, George Philip, comp.

Bibliotheca curiosa; catalogue of the library of A. J. Odell.
2v. in 1. 1878-80.....qro18.2 P49

BECKFORD, William.

Valuable library of books in Fonthill abbey; a catalogue of the library, sold by auction 1823. 1823.....ro18.3 B36

BOUTON, James Warren, pub.

Catalogue of typographical rarities and literary treasures, 1889. v.84. 1889.....ro18.3 B65

BROCKHAUS, Friedrich Arnold.

Vollständiges verzeichniss der von der firma F. A. Brockhaus in Leipzig 1805-1872 verlegten werke. 1872-75..ro18.4 B76

LONGMANS, GREEN & CO. comp.

General list of books in various branches of literature, published and for sale by Longmans, Green & co. 1896..ro18.4 L83

McDONOUGH, Joseph, comp.

Catalogues of second-hand books, no.92-107. 1894-95....ro18.4 M14

MACMILLAN & CO. comp.

Bibliographical catalogue of Macmillan and co.'s publications, 1843-1889. 1891.....ro18.4 M21

019 Library and sale catalogues—Dictionary catalogues

ADVOCATES LIBRARY, Edinburgh.

Catalogue of the printed books, with supplement. 7v. in 9. 1863-79.qro19.1 A24

BIRMINGHAM, England—Free libraries.

Catalogue of the reference department, 1869.....r019.1 B48

The same, 1875-79.....r019.1 B48ca*The same*, 1880.....r019.1 B48c*The same*, 1883-1890.....q019.1 B48cat

BOSTON—Public library.

Index to the catalogue of books in the upper hall. 1861...q019.1 B644

The same; first supplement. 1866.....q019.1 B644i

BOSTON ATHENÆUM LIBRARY.

Catalogue, 1807-71. 5v. 1874-82.....q019.1 B64

BROOKLYN LIBRARY, Brooklyn, N. Y.

Analytical and classed catalogue. 1878-80.....q019.1 B77

CARNEGIE LIBRARY OF PITTSBURGH.

Catalog of books. 1895.....r019.1 C21

CLEVELAND—Public library.

Alphabetic catalogue of the English books in the circulating department. 1889.....q019.1 C58

EDINBURGH—Public library.

Catalogue of books in the lending library. 1891.....r019.1 E28c

Catalogue of books in the reference library, with supplement. 2v. 1891-94.....r019.1 E28

GUILLE-ALLÈS LIBRARY, Guernsey.

Encyclopædic catalogue of the lending department.....r019.1 G96

JERSEY CITY, N. J.—Free public library.

Alphabetical finding-list, with 1st-2d supplement. 1893...q019.1 J28

LEWISHAM, England—Public libraries.

Catalogue of the lending department of the Perry Hill branch library. 1896.....r019.1 L67

LONG ISLAND HISTORICAL SOCIETY.

Catalogue of the library, 1863-1893. 1893.....q019.1 L82

NEW HAVEN, Conn.—Free public library.

Supplement to catalogue part 1, 1892-1895. v.1-2, in 1. 1894-95.....q019.1 N26

NEW YORK (city), YOUNG MEN'S CHRISTIAN ASSOCIATION—Library.

Catalogue; circulating department, July 1900. 1901...q019.1 N261

PASSAIC, N. J.—Free public library.

Alphabetic catalogue; authors, subjects and titles, Nov. 1895. 1895.....r019.1 P28

PEABODY INSTITUTE, Baltimore.

Catalogue of the library. 5v. 1883-92.....q019.1 P33

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REYNOLDS LIBRARY, Rochester, N. Y.

Reference catalogue. 1898.....q019.1 R37

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v.3. 1873-75.

v.4. 1875-78.

v.5. 1878-81.

v.6. 1881-84.

v.7. 1884-87.

BOHN, Henry George, *comp.*

Catalogue of books. 1841.....r019.4 B59

020 Library economy

AMERICAN LIBRARY ASSOCIATION.

Library tracts. v.1, no.1-4. 1900-02.....r020 A51

v.1 (no.1-4). Why do we need a public library?—How to start a public library, by G. E. Wire. — Traveling libraries, by F. A. Hutchins. — Library rooms and buildings, by C. C. Soule.

HESSE, Léopold Auguste Constantin, (*pseud.* L. A. Constantin).

Bibliothéconomie; ou, Nouveau manuel complet pour l'arrangement, la conservation et l'administration des bibliothèques. 1841.....r020 H48

MAIRE, Albert.

Manuel pratique du bibliothécaire. 1896.....r020 M26

SPOFFORD, Ainsworth Rand.

Book for all readers; an aid to the collection, use and preservation of books, and the formation of public and private libraries. 1900.....020 S76

The same. 1900.....r020 S76

WORLD'S LIBRARY CONGRESS.

Papers prepared for the congress held at the Columbian exposition; ed. by Melvil Dewey. 1896.....r020 W89

Reprint of part of the Report of the commissioner of education for 1892/1893.

DANA, John Cotton.

Library primer. 1899.....020.2 D19

The same. 1900.....r020.2 D19

Considers the subject of library management for the small library. Covers selection, buying and care of books, cataloguing, binding, mending, etc. Contains signed articles by well-known library workers. There are several useful bibliographies, and lists of reference books and periodicals for a small library.

DENVER—Public library.

Public library hand-book. 1895.....020.2 D43

The same. 1895.....r020.2 D43

PLUMMER, Mary Wright.

Hints to small libraries. 1894.....r020.2 P72

The same. 1898.....r020.2 P72h*The same.* 1902.....r020.2 P72h2

GARNETT, Richard.

Essays in librarianship and bibliography. 1899. (Library series.)020.4 G19

Contents: Address to the Library association.—Public libraries and their catalogues.—The printing of the British museum catalogue.—The past, present and future of the British museum catalogue.—The British museum catalogue as the basis of a universal catalogue.—Introduction

of European printing into the East.—Paraguayan and Argentine bibliography.—The early Italian book trade.—Some book-hunters of the 17th century.—Librarianship in the 17th century.—The manufacture of fine paper in England in the 18th century.—On some colophons of the early printers.—On the system of classifying books on the shelves followed at the British museum.—Subject-indexes to transactions of learned societies.—Photography in public libraries.—The telegraph in the library.—On the protection of libraries from fire.—The sliding-press at the British museum.—On the provision of additional space in libraries.—Preface to Blades' "Enemies of books."—Sir Anthony Panizzi.—John Winter Jones.—Henry Stevens.—Sir Edward A. Bond.

- CENTRALBLATT für bibliothekswesen; monthly. v.14—
date. 1897—date.....r020.5 C32
The same; beihefte. v.7—date. 1897—date.....qr020.5 C32b
v.7. Milkau, Fritz. Centralkataloge und titeldrucke.—Heiland, Karl. Die Lutherdrucke der Erlanger universitätsbibliothek, 1518–1523.—Bauch, Gustav. Geschichte des Leipziger frühhumanismus, mit besonderer rücksicht auf die streitigkeiten zwischen Konrad Wimpina und Martin Mellerstadt.
v.8, in 2. Hartwig, Otto, ed. Festschrift zum fünfhundertjährigen geburtstage von Johann Gutenberg.
v.7 lacks heft 19.
- LIBRARY; monthly. v.1—date. 1889—date.....r020.5 L683
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- LIBRARY association record; a monthly magazine of librarianship and bibliography; ed. by Henry Guppy. v.1—
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- LIBRARY chronicle. 5v. 1884–88.....qr020.5 L682
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- LIBRARY journal; monthly, Sept. 1876—date. v.1—date. 1877—
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——General index, v.1–22. 1898.
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- LIBRARY notes; improved methods and labor-savers, June
1886–1898. 4v. 1887–98.....r020.5 L68
Issued irregularly.
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- LIBRARY world; a medium of intercommunication for librarians; monthly, July 1898—date. v.1—date. 1899—date..r020.5 L6822
- PUBLIC libraries; a monthly review of library matters and methods. v.1—date. 1896—date.....qr020.5 P98
- INTERNATIONAL LIBRARY CONFERENCE.
Transactions and proceedings of the second international library conference, held in London, July 13–16, 1897.
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- ADAMS, Herbert Baxter.
Public libraries and popular education. 1900. (New York (state)—University. Home education bulletin no.31.)..r021 A21
Bibliography, p.239–264.
- GREEN, Samuel Swett, *comp.*
Libraries and schools. 1883.....r021.3 G83
Contents: The public library and the public schools, by C. F. Adams.—The relation of the public library to the public schools, by S. S. Green.—Libraries as educational institutions, by S. S. Green.—The public library as an auxiliary to the public schools, by R. C. Metcalf.—The relation of libraries to the school system, by W. E. Foster.—A plan of systematic training in reading at school, by W. E. Foster.
- WISCONSIN—Free library commission.
Biennial report, 1895–96—date. v.1—date. 1896—date.....r021.8 W81

VERMONT—Library commissioners, Board of.

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022 Library buildings

BURGOYNE, Frank James.

Library construction, architecture, fittings and furniture.

1897. (Library series.).....022 B91

Lists of illustrations of libraries which have appeared in the "American architect," "Architect," "British architect," "Builder" and "Building news," p.315-326.

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Specifications and conditions of submitting bids for the erection and completion of the Carnegie free library

and music hall building, Allegheny, Pa.....r022 C21

CLARK, John Willis.

The care of books; an essay on the development of libraries and their fittings, from the earliest times to the end of the eighteenth century. 1901.....qr022 C52

Mr Clark says in his introduction, "From my special point of view books are simply things to be taken care of; even their external features concern me only so far as they modify the methods adopted for arrangement and preservation." From this standpoint he traces the methods adopted by man in different ages and countries to preserve books and manuscripts and to make them accessible to others. His investigation includes the position, size and arrangement of the rooms in which these treasures were kept and the progressive development of fittings, catalogues and other appliances. The volume contains 156 illustrations, many of them full-page plates, admirably executed.

"A work of...real learning and scholarship." *Athenæum*, 1901.

POOLE, William Frederick.

Organization and management of public libraries. 1876....r022 P79

Being v.1, chapter 25 of "Public libraries in the United States," published by the United States bureau of education.

Bound with the following.

- Remarks on library construction, to which is appended an examination of Mr Smithmeyer's pamphlet entitled Suggestions on library architecture, American and foreign. 1884.....r022 P79

Report on the progress of library architecture, and resolutions of the American library association, 1882, concerning the building for the Library of Congress. 1882....r022 P79

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SMALL, Herbert.

Handbook of the new Library of Congress, with essays on the architecture, sculpture and painting, by Charles Caffin, and on the function of a national library, by A.

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BONFORT, H.

Das bibliothekwesen in den Vereinigten Staaten. 1896....025 B62

CRUNDEN, Frederick Morgan.

How things are done in one American library.....r025 C89

A series of articles on the St. Louis public library, which appeared in the "Library," v.11-12, 1899-1901.

FOOTE, Elizabeth Louisa.

The librarian of the Sunday school; a manual, with a chapter on the Sunday school library by M. T. Wheeler. 1897..025 F74

Bibliography of descriptive lists of approved books for Sunday school libraries, p.81.

MACFARLANE, John, *of the British museum library.*

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SHURTLEFF, Nathaniel Bradstreet.

Decimal system for the arrangement and administration of libraries. 1856.....qr025 S56

RICHARD, Jules.

L'art de former une bibliothèque. 1883.....r025.2 R39

AMERICAN LIBRARY ASSOCIATION.

List of subject headings for use in dictionary catalogs.

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The same. Ed. 2. 1898.....qr025.3 A51

BRITISH MUSEUM.

Rules for compiling the catalogues in the department of printed books in the British museum. 1900.....r025.3 B75

CUTTER, Charles Ammi.

Rules for a dictionary catalogue. (United States—Education bureau. Public libraries in the United States, v.2.)r027 U25 v.2

DEWEY, Melvil.

Library school rules. 1894.....qr025.3 D51

Simplified library school rules. 1898.....qr025.3 D51s

Contents: Card catalog.—Book numbers.—Accession.—Shelf list.—Capitals, punctuation, abbreviations, library handwriting.

HASSE, Adelaide Rosalie.

United States government publications; a handbook for the cataloger. v.1. 1902.....qr025.3 H34
v.1. The government at large; the constitution, statutes, treaties.

LINDERFELT, Klas August, *comp.*

Eclectic card catalog rules. 1890.....qr025.3 L71

PERKINS, Frederic Beecher.

Rational classification of literature for shelving and cataloguing books in a library. 1882.....r025.3 P43
Bound with the following.

San Francisco cataloguing for public libraries. 1884.....r025.3 P43

QUINN, John Henry.

Manual of library cataloguing. 1899.....r025.3 Q35

SYDNEY, PUBLIC LIBRARY OF NEW SOUTH WALES.

Guide to the system of cataloguing of the reference library, with regulations for visitors, etc. 1898.....qr025.3 S98

BROWN, James Duff.

Manual of library classification and shelf arrangement. 1898.r025.4 B78

DEWEY, Melvil.

Abridged decimal classification and relativ index. 1894..r025.4 D51a

Decimal classification and relativ index. 1894.....qr025.4 D51

RICHARDSON, Ernest Cushing.

Classification, theoretical and practical, with an appendix containing an essay towards a bibliographical history of systems of classification. 1901.....025.4 R41

New York state library school association alumni lectures, 1900-1901.

ROYAL SOCIETY OF LONDON.

International catalogue of scientific literature; report of the committee, with schedules of classification. 1898..r025.4 R81

O'CONOR, John Francis Xavier.

Facts about bookworms; their history in literature and work in libraries. 1898.....025.8 O13

BLADES, William.

Enemies of books. 1888.....025.9 B51

The enemies enumerated by Mr Blades are: fire, water, gas and heat, dust and neglect, ignorance and bigotry, the book-worm, bookbinders, collectors, and servants and children.

027 History of libraries

BRITISH library year book; a record of library progress and

work; ed. by Thomas Greenwood, 1900/01. v.I. 1900..r027 B75

CLARK, John Willis.

Libraries in the medieval and renaissance periods. 1894...027 C52

EDWARDS, Edward.

Libraries and founders of libraries. 1864.....r027 E31

FLETCHER, William Isaac.

Public libraries in America. 1894.....027 F63

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FLINT, Weston, *comp.*

Statistics of public libraries in the United States and Canada. 1893. (United States—Education bureau. Circular of information no.201.).....r027 F64

GENTLEMAN'S magazine library; ed. by G. L. Gomme; Lit-

erary curiosities and notes. 1888.....027 G29

Contents: Bookmaking and bookselling. — Libraries and book clubs. — Bibles, prayer-books and devotional books.

GREENWOOD, Thomas.

Public libraries; a history of the movement and a manual for the organization and management of rate-supported libraries. 1894.....027 G85

NÖRRENBERG, Constantin.

Kooperation verschiedener bibliotheken, [and] Oeffentliche bibliotheken in Amerika. 1896.....r027 R37

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REYER, Ed.

Entwicklung und organisation der volksbibliotheken. 1893..r027 R37

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- Public libraries in the United States; their history, condition and management. 2v. 1876-91.....r027 U25
 Statistics of libraries and library legislation in the United States. 1897.....r027 U25s
 Chapters from the Report of the commissioner of education, 1895-96.

WILSON, James Grant.

- World's largest libraries. (Hoffman library lectures.)....027 W76
The same. (Hoffman library lectures.).....r027 W76

MERCANTILE LIBRARY ASSOCIATION, Pittsburgh.

- Annual report, 1871-1873. v.24-26, in 1. 1872-74.....r027.2 M63

QUINCY, Josiah, 1772-1864.

- History of the Boston Athenæum, with notices of its founders. 1851.....qro27.2 B64

JEFFERSON COUNTY LIBRARY, Fairfield, Iowa.

- Photographs and description of the Jefferson county library, Fairfield, Iowa, erected by Andrew Carnegie, 1896.qro27.3 J23

BIRMINGHAM, England—Free libraries.

- Annual report of the committee, 1862, 1868-69, 1871-72, 1874-date. v.1, 7-8, 10-11, 13-date. 1862-date.....r027.4 B48

BOSTON—Public library.

- Annual report of the trustees. v.2-date. 1854-date....r027.4 B64a
 v.3, 6-11, 13, 16, 19, 24-25, 27, reports for 1855, 1858-63, 1865, 1868, 1870/71, 1875/76-1876/77, 1878/79, wanting.

- Hand-book for readers in the library, containing the regulations of the library, an account of the catalogues, a bibliography of special subjects, list of indexes to periodicals and other information. 1890.....r027.4 B64h

- Proceedings on laying the corner-stone, Sept 17, 1855. 1855.r027.4 B64

BROOKLINE, Mass.—Public library.

- Annual report of the trustees, 1865/66-date. v.9-date. 1866-date.r027.4 B77
 v.10-12, 37, reports for 1867-69, 1894, wanting.

BUFFALO, N. Y.—Library.

- Annual report, 1895-date. v.60-date. 1896-date.....r027.4 B86

CAMBRIDGE, Mass.—Public library.

- Annual report of the trustees, 1882-date. v.25-date. 1883-date.r027.4 C14
 v.26-29, 31, 33-34, reports for 1883-86, 1888, 1890-91, wanting.

CARNEGIE INSTITUTE, Pittsburgh.

- Carnegie fine arts and museum collection fund; constitution and by-laws of the board of trustees, together with Mr Carnegie's letter and deed of trust.....r027.4 C21c
 Bound with Carnegie library of Pittsburgh. Ordinances and by-laws.

- Founder's day, 1897-date. 1897-date.....r027.4 C21f

Accounts of the Founder's day exercises of Carnegie institute, beginning with the second anniversary (1897) of the dedication of the building. The first anniversary, in 1896, was celebrated very informally, and no printed description was issued. Beginning with 1899 the title reads, "Fourth [Fifth, Sixth, etc.] celebration of Founder's day at the Carnegie institute."

For information concerning the dedication of the building in 1895, see "Dedication souvenir" and "Presentation of the library to the people of Pittsburgh," under Carnegie library of Pittsburgh.

CARNEGIE LIBRARY OF PITTSBURGH.

- Dedication souvenir. 1895.....r027.4 C21
 Ordinances and by-laws.....r027.4 C21c
 Presentation of the library to the people of Pittsburgh,
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 1895. 1895.....r027.4 C21p

CREDLAND, William Robert.

- Manchester public free libraries; a history and descrip-
 tion, and guide to their contents and use. 1899.....r027.4 C87

EDWARDS, Edward.

- Free town libraries; their formation, management and his-
 tory in Britain, France, Germany & America, with
 notices of book-collectors and of the places of deposit
 of their surviving collections. 1869.....r027.4 E31

ENOCH PRATT FREE LIBRARY, Baltimore.

- Letters and documents relating to its foundation and
 organization, with the dedicatory addresses and exer-
 cises, Jan. 4, 1886. 1886.....r027.4 E65

HARTFORD—Public library.

- Annual report of the executive committee, 1895/1896—date.
 v.58—date. 1896—date.....r027.4 H32

JAMES BLACKSTONE MEMORIAL LIBRARY, Branford,
Conn.

- Exercises at the opening, June 17, 1896. 1897.....qr027.4 J16

JOHN CRERAR LIBRARY, Chicago.

- Annual report, 1895—date. v.1—date. 1897—date.....qr027.4 J35

KRUPP'SCHE BÜCHERHALLE.

- Bericht der Krupp'schen bücherhalle über das betriebs-
 jahr 1899/1900—1900/01; mit anlage, Die verwaltung und
 einrichtung der bücherhalle. v.1—2. 1900—01.....qr027.4 K42

LANGFORD, John Alfred.

- The Birmingham free libraries, the Shakspeare memorial
 library and the art gallery. 1871.....r027.4 B481

LENOX LIBRARY, New York.

- Annual report of the trustees, 1870—1894. v.1—25, in 1.
 1871—95.r027.4 L61

LITHGOW LIBRARY, Augusta, Maine.

- Lithgow library and reading room; history and descrip-
 tion.r027.4 L74

LOS ANGELES, Cal.—Public library.

- Annual report. v.1—date. 1889—date.....r027.4 L89

NEW HAVEN, Conn.—Free public library.

- Annual report. v.1—date. 1887—date.....r027.4 N26

NEW YORK (city)—Free circulating library.

- Annual report, 1887—1900. v.8—21. 1887—1901.....r027.4 N261
 v.11, report for 1891, wanting.
 Consolidated with the New York public library, Feb. 25, 1901.

NEW YORK LIBRARY CLUB.

- Libraries of greater New York; Manual and historical
 sketch of the New York library club. 1902.....r027.4 N2612

OGLE, John J.

The free library; its history and present condition. 1897.

(Library series.)027.4 O17

Treats of British libraries only.

PRATT INSTITUTE, Brooklyn, N. Y.

Report of the library, 1896/97-date. v.1-date. 1897-date...r027.4 P88

PROVIDENCE, R. I.—Public library.

Annual report, 1882-date. v.5-date. 1883-date.....r027.4 P97

v.10-13, 15, 17, reports for 1887-90, 1892 and 1894, wanting.

ST. LOUIS—Public library.

Annual report, 1869/70-1896/97. 23v. in 2. 1870-98.....r027.4 S14

Reports for 1876/1877, 1878/1879-1879/1880, 1889/1890 wanting.

SMALL, Herbert.

Handbook of the new public library in Boston. 1895.....027.4 B64

SPRINGFIELD, Mass. CITY LIBRARY ASSOCIATION.

Annual report, 1865/66-date. v.5-date. 1886-date.....r027.4 S76

v.7, 9-10, reports for 1867/1868, 1869/1870-1870/1871, wanting.

STEVENSON, William Marshall.

Carnegie and his libraries. 1899.....qro27.4 S84

Reprinted from the "Presbyterian banner," v.86, Aug. 10, 1899.

ILLINOIS STATE HISTORICAL LIBRARY.

Trustees' report, 1894. 1895.....r027.5 I22

NEW YORK (state)—Library.

Annual report, 1892/93-date. v.76-date. 1894-date.....r027.5 N26

PENNSYLVANIA—State library.

Report of the librarian, 1888-date. 1889-date.....r027.5 P39

UNITED STATES—Library of Congress.

Report of the librarian, 1897-date. 1897-date.....r027.5 U25

Report for 1900/01 contains a manual of the constitution, organization, methods, etc. of the library.

WISCONSIN HISTORICAL SOCIETY.

Memorial volume of the State historical society of Wisconsin; exercises at the dedication of its new building, Oct. 19, 1900, with a description of the building, accounts of the several libraries contained therein and a brief history of the society; ed. by R. G. Thwaites.

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NEW YORK (state)—University—Extension department.

Traveling libraries. 1901. (Bulletin no.40.).....r027.6 N26

Contents: Field and future of traveling libraries, by Melvil Dewey. — Summary of traveling library systems, by Myrtilla Avery.

HARVARD UNIVERSITY—Library.

Report of the librarian, 1896-date. 1896-date.....r027.7 H33

DUNNING, Albert Elijah.

Sunday-school library. 1884.....r027.8 D92

028 Reading and aids

ABBOTT, Lyman, *ed.*

Hints for home reading, with suggestions for libraries by

G. P. Putnam. 1892.....028 A13

Contains priced lists of suggested selections of 500, 1000 and 2000 volumes of the most desirable and important books.

ATKINSON, William Parsons.

On the right use of books. 1880.....028 A87

BALDWIN, James.

Book-lover; a guide to the best reading. 1895.....028 B19

BALDWIN, James, *comp.*

Guide to systematic readings in the Encyclopædia Britannica. 1895.....r028 B19g

BROOKINGS, Walter DuBois, & Ringwalt, R. C. *ed.*

Briefs for debate on current political, economic and social topics. 1896.....r028 B77
Bibliography of debating, by A. B. Hart, p.41-47.

CALLER, Mary Alice.

Literary guide for home and school. 1895.....028 C13
Contains general suggestions on the reading of young girls, and outlines a ten years' course in literature for girls from seven to seventeen; there are also lists of historical novels illustrating the whole course of English and American history.

COUNSEL upon the reading of books, with an introduction

by Henry Van Dyke. 1900.....028 C83

Contents: History, by H. M. Stephens.—Memories and biographies, by Agnes Repplier.—Sociology, economics and politics, by A. T. Hadley.—The study of fiction, by Brander Matthews.—Poetry, by Bliss Perry.—Essay and criticism, by H. W. Mabie.

A short list of references precedes each chapter.

CRUMP, John F.

Witchery of books. 1900.....028 C89

FARRAR, Frederic William, dean.

Great books. 1898.....028 F25

Contents: Great books.—John Bunyan.—Shakespeare.—Dante.—Milton.—The imitation of Christ.

FOSTER, William Eaton.

Libraries and readers. 1883.....r028 F81

Contents: Some hints on right reading.—Correction of aimless reading.—The specializing of reading, for general readers.—“Current literature” and “standard literature.”—Securing the interest of a community.—What may be done at home.—How to use a library; a rudimentary chapter.—Books and articles on reading.

GIBSON, Laurence M.

Handbook for literary and debating societies. 1898.....r028 G37
References at the end of each article.

HOFFMAN, Charles Frederick.

The library a divine child. 1893.....028 H67

HUMPHREYS, Arthur L.

The private library; what we do know, what we don't know, what we ought to know about our books. 1897.....028 H92

IRELAND, Alexander, (*pseud.* Philobiblos), *comp.*

Book-lover's enchiridion. 1883.....028 I28

A treasury of thoughts on the solace and companionship of books, gathered from the writings of the greatest thinkers, from Cicero to Ruskin.

KOOPMAN, Harry Lyman.

Mastery of books; hints on reading and the use of libraries. 1896.....r028 K37
Annotated list of books on the subject of reading, p.197-203.

LARNED, Josephus Nelson.

A talk about books. 1897.....028 L32

An address by the author of the "History for ready reference," to the students of the Central high school, Buffalo, N. Y.

LEYPOLDT, Augusta H. & Iles, George, *comp.*

List of books for girls and women and their clubs. 1895...qro28 L67

Lists of books on various subjects, chosen by specialists, and furnished with descriptive and critical notes. In addition to these lists are a list of periodicals and hints for girls' and women's clubs.

MATSON, Henry.

References for literary workers. 1893.....r028 M47

MATTHEWS, Brander.

Home library. 1883.....028 M47

Chapters on the buying and owning of books, on fiction, on book-binding, etc.

RAFFETY, Frank W.

Books worth reading; a plea for the best and an essay towards selection, with short introductions to many of the world's great authors. 1899.....028 R14

RICHARDSON, Charles Francis.

Choice of books. 1885.....028 R41

RIGHT reading; words of good counsel on the choice and use of books, selected from the writings of ten famous

authors. 1902.....028 R45

List of authors: Sir Arthur Helps.—Carlyle.—Isaac D'Israeli.—Emerson.—Schopenhauer.—Ruskin.—J. C. Hare.—John Morley.—Lowell.—Frederic Harrison.

ROWTON, Frederic.

How to conduct a debate; a series of complete debates, outlines of debates and questions for discussion, with references to the best sources of information on each particular topic; revised by W. Taylor.....r028 R81

SHAYLOR, Joseph, *comp.*

The pleasure of literature and the solace of books. 1898....028 S53

Prose extracts from ancient and modern writers.

WINCHESTER, Caleb Thomas.

Five short courses of reading in English literature, with biographical and critical references. 1892.....r028 W77

028.5 Reading for the young

BUFFALO, N. Y.—Library.

Class-room libraries for public schools, listed by grades, to which is added a list of books suggested for school reference libraries. 1902.....r028.5 B86

BURT, Mary Elizabeth.

Literary landmarks. 1893.....028.5 B94

Guide to reading for the young. The volume contains many ingenious illustrations designed to fix in the pupil's mind the story of literature, and at the end is a carefully selected list of 700 books.

CARNEGIE LIBRARY OF PITTSBURGH.

Graded and annotated catalogue of books for the use of the city schools. 1900.....r028.5 C21

FIELD, Mrs E. M.

The child and his book; some account of the history and progress of children's literature in England. 1891.....028.5 F45

GRISWOLD, William MacCrillis, *comp.*

Descriptiv list of books for the young. 1895.....r028.5 G93

HARDY, George E. *ed.*

Five hundred books for the young. 1892.....028.5 H26

The same. 1892.....r028.5 H26

HARTFORD—Public library.

Boys' and girls' books in the library. 1895.....r028.5 H32

LAWRENCE, Isabel.

Classified reading; books for the school, the library and the home, with a full bibliography of education. 1898..r028.5 L42

PRENTICE, May H. *comp.*

References to books in the Cleveland public library, intended to aid the third grade teachers of the Cleveland public schools. 1898.....028.5 P91

The same. 1898.....r028.5 P91

Published by the Cleveland public library.

SARGENT, John Frederick, *comp.*

Reading for the young, with supplement for 1891-1895 by M. E. and A. L. Sargent. 2v. in 1. 1890-96.....q028.5 S24r

The same. 2v. 1890-96.....qr028.5 S24

WISCONSIN—Libraries, State superintendent of.

List of books for township libraries of Wisconsin. 1901..r028.5 W81

The same. 1902.....r028.5 W81l

029 Literary methods

AUTHOR; a monthly magazine for literary workers. 3v. in

1. 1889-91.....r029 A93

No more published.

BOOTH, William Stone, *comp.*

Notes for the guidance of authors. 1900.....029 B63

Brief chapters on the preparation of a manuscript, submitting a manuscript to a publisher, copyright, forms of agreement, proof-reading, proof showing corrections, and other helpful suggestions to persons not accustomed to the ways of publishers. Compiled for the Macmillan co.

WALSH, William Shepard, *comp.*

Authors and authorship. (Literary life.).....029 W18

WRITER; a monthly magazine for literary workers. v.1-

date. 1887-date.....r029 W93

Contains articles on subjects of particular interest to writers, especially those doing newspaper work of any kind, advice to aspirants to the profession of literature, lists of magazine articles interesting to literary workers, and descriptions of practical helps and conveniences.

030 General encyclopedias

AMERICAN annual cyclopædia and register of important events, 1861, 1864. v.1, 4. 1862-65.....q031 A51

Continued 1876-date as "Appletons' annual cyclopædia and register of important events."

- APPLETONS' American cyclopædia. 17v. 1883-84.....qro3I A64
- APPLETONS' annual cyclopædia and register of important events, 1876-date. New series v.1-date. 1886-date...qro3I A64a
Title of earlier series reads "American annual cyclopædia and register of important events."
- CENTURY cyclopedia of names. 1894.....qro3I C32
The same. 1895.....qro3I C32c
- CHAMPLIN, John Denison.
Young folks' catechism of common things. 1886.....rj03I C35y
- CHAMPLIN, John Denison, *comp.*
Young folks' cyclopædia of common things. 1894.....rj03I C35
- CHANDLER'S encyclopedia; an epitome of universal knowledge; ed. by W. H. Chandler. 3v. 1898.....qro3I C36
- COLUMBIAN cyclopedia. 32v. 1897.....ro3I C72
- INTERNATIONAL cyclopædia. 15v. 1895.....qro3I I24
- INTERNATIONAL year book; a compendium of the world's progress in every department of human knowledge, 1898-date; ed. by F. M. Colby and H. T. Peck. v.1-date. 1899-date.....qro3I I248
- JOHNSON'S new universal cyclopædia. 4v. 1875-78.....qro3I J35
The same; ed. by C. K. Adams. 8v. 1893-95.....qro3I J35u
The same; new ed. by C. K. Adams; revised and enl. by Rossiter Johnson. 12v. 1902.....qro3I J35u2
Title-page of the edition of 1902 reads "Universal cyclopædia and atlas."
- CHAMBERS'S encyclopædia. 10v. 1901.....qro32 C35
- ENCYCLOPÆDIA Britannica. 25v. 1878-89.....qro32 E62
——American supplement. 4v. 1893.....qro32 E62I
- HAZELL'S annual for 1890-date. v.5-date. 1890-date.....ro32 H38
v.6, 7 and 9 wanting.
- PENNY cyclopædia, with 1st supplement. 29v. in 16.
1833-51.....qro32 P4I
- QUILTER, Harry, *ed.*
What's what. v.1. 1902.....ro32 Q32
A new kind of encyclopedia, more for reading than for reference. It covers a wide field and in spite of inconsistencies, curious omissions and lack of proportion, it contains some interesting and worthy material.
- REES, Abraham, *comp.*
The cyclopædia; or, Universal dictionary of arts, sciences and literature. 45v. 1819-20.....qro32 R28
- WILKES, John, *of Sussex, England, comp.*
Encyclopædia Londinensis. v.1-10. 1810-11.....qro32 W72
- ALLGEMEINES lexicon der künste und wissenschaften. 2v.
1767.ro33 A43
- BROCKHAUS, Friedrich Arnold, *comp.*
Konversations-lexikon. 17v. 1892-97.....qro33 B76
- HÜBNER, Johann, *comp.*
Reales staats- zeitung- und conversations-lexicon. 1757..ro33 H88
- MEYERS kleines konversations-lexikon. 3v. 1892-93.....ro33 M65k
- MEYERS konversations-lexikon. v.1-date. 1893-date....qro33 M65

LAROUSSE, Pierre Athanase, *comp.*

Grand dictionnaire universel du 19e siècle, & 2 suppléments. 17v. 1865-90.....qr034 L33

040 General collections

COTGREAVE, Alfred, *comp.*

Contents-subject index to general and periodical literature. 1900.....r040 C83

EVENS, William.

Scrap book compiled by William Evens.....qr040 E95

Miscellaneous clippings collected by an old Pittsburgh musician.

FLETCHER, William Isaac, *ed.*

"A. L. A." index; an index to general literature. 1893....qr040 F63

The same. 1901.....qr040 F63a

050 General periodicals

Indexes

ANNUAL literary index, including periodicals and essays; *ed.*

by W. I. Fletcher and R. R. Bowker, 1892-date. v.1-date. 1893-date.....qr050 A61

CUMULATIVE index to a selected list of periodicals, 1896-

date. v.1-date. 1897-date.....qr050 C91

DIETRICH, F. *comp.*

Bibliographie der deutschen zeitschriften-litteratur. v.1-date. 1897-date.....qr053 D57

The same; supplementband, bibliographie der deutschen rezensionen, 1900-date. v.1-date. 1901-date.....qr053 D57s

INDEX to the periodical literature of the world. *See* Review of reviews. Annual index of periodicals.

POOLE, William Frederick, *comp.*

Alphabetical index to subjects treated in the reviews and other periodicals to which no indexes have been published, prepared for the library of the Brothers in unity, Yale college. 1848.....r050 P79a

The germ of Poole's invaluable "Index to periodical literature," compiled when the author was a student at Yale. He himself says of it, "My work, though crude and feeble on its bibliographical side, answered its purpose, and brought to me the whole body of students for a kind of help they could not get from the library catalogues, nor from any other source...The little book is now a curiosity in more senses than one."

A second edition, with six times the amount of matter contained in the first, appeared in 1853, and was incorporated later into the well-known "Index" of 1882.

POOLE, William Frederick, & Fletcher, W. I. *comp.*

Index to periodical literature; and supplements, 1802-1896.

4v. in 5. 1888-97.....qr050 P79

The same; abridged edition covering the contents of thirty-seven important periodicals, 1815-1899, by W. I. Fletcher and Mary Poole. 1901.....qr050 P79i

RÉPERTOIRE bibliographique des principales revues françaises; rédigé par D. Jordell, 1898–date. v.2–date. 1900–date.qro54 R35

REVIEW OF REVIEWS.

Annual index of periodicals & photographs, 1890–date.

v.1–date. 1891–date.....qro50 R36

v.2–4 title reads "Index to the periodical literature of the world."

v.5–date title reads "Index to the periodicals."

051 American periodicals

AMERICAN eclectic; or, Selections from the periodical literature of all foreign countries; ed. by Absalom Peters and others; bi-monthly. 4v. 1841–42.....ro51 A5122
No more published.

AMERICAN monthly review. 4v. in 3. 1832–33.....ro51 A5123
No more published.

AMERICAN monthly review of reviews. *See* Review of reviews.

AMERICAN notes and queries; weekly. 8v. 1888–92.....ro51 A512

AMERICAN quarterly review, Mar. 1827–Dec. 1837. 22v.

1827–37.ro50 A51

No more published.

AMERICAN review; a Whig journal; monthly. 16v. 1845–52..ro51 A51
v.11–16 title reads "American Whig review."
No more published.

AMERICAN review of history and politics; ed. by R. Walsh; quarterly. 4v. 1811–12.....ro51 A513
No more published.

AMERICAN Whig review. *See* American review.

ANALECTIC magazine; containing selections from foreign reviews and magazines; monthly, Jan. 1813–June 1819.
v.1–13. 1813–19.....ro51 A53
v.6–8 title reads "Analectic magazine and naval chronicle."

APPLETONS' journal of literature, science and art; weekly and monthly. 26v. 1869–81.....qro51 A65
No more published.

ARENA; monthly. v.1–date. 1890–date.....ro51 A68

ATLANTIC monthly. v.1–date. 1858–date.....ro51 A88
———Index, v.1–62. 1889.

BAY state monthly. *See* New England magazine.

BOOK buyer; a summary of American and foreign literature; monthly. v.1–date. 1884–date.....ro51 B63b

BOOK news; monthly. v.16–date. 1897–date.....qro51 B63i

BOOK reviews; monthly. v.3–9. 1895–1901.....ro51 B632
No more published.

BOOKMAN; illustrated literary journal; monthly. v.1–date.
1895–date.qro51 B63

BOSTONIAN. *See* National magazine.

CALIFORNIAN; a Western monthly magazine. 6v.
1880–82.....qro51 C13
Oct.–Dec. 1882 title reads the "Californian and overland monthly." No
more published.

CANADIAN magazine of politics, science, art and literature; monthly. v.1–date. 1893–date.....ro51 C16

- CANADIAN monthly and national review, Jan. 1872-June 1882. 21v. 1872-82.....ro5I C167
No more published.
- CENTURY illustrated monthly magazine. v.1-date. 1882-date.....ro5I S43I
Being v.23-date of "Scribner's monthly."
The same. v.36-date. 1899-date.....o5I S43I
Being v.58-date of "Scribner's monthly."
- CHAP-BOOK; semi-monthly. 9v. 1894-98.....qro5I C36
No more published.
- CHAUTAUQUAN; monthly. v.1-date. 1881-date.....qro5I C4I
- CONSERVATIVE review. v.1-date. 1899-date.....ro5I C75
- CONTINENTAL monthly, devoted to literature and national policy, Jan. 1862-June 1864. v.1-5. 1862-64.....ro5I C76
- COSMOPOLITAN; monthly. v.1-date. 1886-date.....ro5I C83
- CRITIC; weekly. New series, v.1-date. 1884-date.....qro5I C88
- CURRENT literature; monthly. v.1-date. 1888-date.....qro5I C93
- DAGUERRETYPE; a magazine of foreign literature and science, comp. chiefly from the periodical publications of England, France and Germany; semi-monthly, Aug. 7, 1847-Apr. 17, 1849. v.1-3. 1847-49.....qro5I D14
- DIAL; monthly and semi-monthly. v.1-date. 1881-date....qro5I D53
- ECLECTIC magazine of foreign literature, science and art; monthly. v.1-date. 1844-date.....ro5I E25
v.132 begins a new series, and title reads "Eclectic magazine and monthly edition of the Living age."
- EMERSON'S magazine and Putnam's monthly. *See* Putnam's monthly magazine.
- EVERY Saturday; weekly. 17v. 1866-74.....qro5I E95
In Nov. 1874 this was incorporated with "Littell's living age."
- FORUM; monthly. v.1-date. 1886-date.....ro5I F79
—Index, v.1-32. 1902.
- FRANK Leslie's popular monthly. v.44-date. 1897-date....qro5I F87
- GALAXY; semi-monthly and monthly. v.1-24, in 25. 1866-77..ro5I G14
Publication ceased with v.25.
Incorporated with "Atlantic monthly."
- GRAHAM'S magazine; monthly, Jan.-June 1851. v.38. 1851..qro5I G77
- GRANITE monthly; a New Hampshire magazine devoted to literature, history and state progress. v.1-date. 1877-date.....ro5I G78
- GREAT round world; a history of our own times for boys and girls; weekly. v.1-date. 1896-date.....rj05I G82
The same. v.3-date. 1899-date.....j05I G82
- HARPER'S new monthly magazine. v.1-date. 1850-date....ro5I H28
—Index, v.1-85. 1893.
The same. v.100-date. 1900-date.....o5I H28
- HARPER'S young people; weekly and monthly. 20v. 1880-99.....qrj05I H28
The same. v.2, 17-18. 1881-98.....qj05I H28
v.16-20 title reads "Harper's round table."
No more published.
- HESPERIAN tree; an annual of the Ohio valley; ed. by J. J. Piatt. v.1-date. 1900-date.....qro5I H48
"Editor's aim has been to offer to the public in this annual a magazine of literary miscellany in prose and verse comprising original stories, sketches, essays and poems—the contributors to which should be native

to or identified with the Ohio Valley...with reproductions...of pictures and drawings, as well as works in sculpture, by artists also native to or identified with our...valley." *Editor's note.*

- HOURS at home; monthly. 11v. 1865-70.....r051 H83
No more published.
- ILLUSTRATED American; weekly. 25v. 1890-99.....qr051 I22
v.22-23 wanting.
No more published.
- INTER ocean curiosity shop, 1880-1892. v.3-15. 1881-93...r051 I2481
Publication ceased with v.15.
- INTERNATIONAL monthly; a magazine of contemporary thought. v.1-date. 1900-date.....r051 I2482
- INTERNATIONAL monthly magazine. 5v. 1850-52.....r051 I248
No more published.
- INTERNATIONAL review; bi-monthly. 14v. 1874-83.....r051 I24
No more published.
- KNICKERBOCKER; or, New-York monthly magazine.
v.1-60. 1833-62.....r051 K34
March 1844 wanting.
- LAND we love; monthly, May 1866-Mar. 1869. v.1-6. 1866-69..r051 L21
A general literary magazine published in the South and specially devoted to Southern interests. It contains considerable material relating to the Civil war.
- The LIBRARY; weekly, March 10th-Sept. 1st, 1900. v.1,
no.1-26. 1900. Pittsburgh.....qr051 L68
No more published.
- LIPPINCOTT'S monthly magazine. v.1-date. 1868-date..r051 L73
- LITERARY digest; weekly. v.12-date. 1896-date.....qr051 L741d
- LITERARY world; monthly and semi-monthly. v.9-date.
1878-date.qr051 L741
- LITTELL'S living age; weekly. v.1-date. 1844-date.....r051 L74
———Complete index, v.1-100. 1891.
- LITTLE folks; monthly. v.1-date. 1899-date.....rj051 L74
- McCLURE'S magazine; monthly. v.1-date. 1893-date.....r051 M13
- MIDLAND monthly. v.8-11. 1897-99.....r051 M67
Publication ceased with v.11.
- MISCELLANEOUS notes and queries, with answers; pub.
by S. C. & L. M. Gould; monthly, July 1882-date. v.1-
date. 1884-date.....r051 M73
v.16 title reads "The grand man; notes and queries."
v.17-date title reads "Notes and queries and historic magazine."
- MUNSEY'S magazine; monthly, Oct. 1891-date. v.6-date.
1892-date.r051 M96
Prior to October 1891 this appeared as a weekly publication.
- NATIONAL magazine; an illustrated monthly. v.1-date.
1896-date.qr051 B64
v.1-3 published as the "Bostonian."
- NATIONAL magazine; devoted to literature, art and religion; ed. by Abel Stevens and James Floy; monthly.
13v. 1852-58.....r051 N15
No more published.
- NEW England magazine. v.1-date. 1884-date.....r051 B33
v.1-3 published as the "Bay state monthly."
- NEW-ENGLAND magazine; ed. by J. T. Buckingham and others; monthly, July 1831-Dec. 1835. 9v. 1831-35...r051 N2612
Continued as "American monthly magazine."

- NEW Englander. 56v. 1843-92.....r051 N261
 ———Index, v.1-19. 1862.
 v.44-56 title reads "New Englander and Yale review."
 Succeeded by the "Yale review."
- NEW YORK review; half yearly and quarterly. 10v. 1837-42..r051 N26
 No more published.
- NORTH American review; bi-monthly and monthly. v.1-
 date. 1815-date.....r051 N45
- NOTES and queries and historic magazine. *See* Miscellaneous
 notes and queries.
- OLD and new; monthly. 11v. 1870-75.....r051 O23
 No more published.
- OPEN court; a monthly magazine. v.3, no.2-date. 1889-
 date.qr051 O26
- OUR day; a record and review of current reform; ed. by
 Joseph Cook and others; monthly. v.1-8. 1888-91...r051 O327
- OUR monthly; a religious and literary magazine. 4v. in 2.
 1870-71.r051 O32
- OUR young folks; monthly. 9v. 1865-73.....rj051 O32
- OVERLAND monthly. v.1-date. 1868-date.....r051 O33
 Discontinued from Jan. 1876-Dec. 1882.
- PENN monthly magazine. 14v. in 13. 1870-82.....r051 P39
 No more published; v.14 consists of one number only.
- The PHILISTINE; a periodical of protest, printed for the
 Society of the Philistines; monthly. v.1-date. 1895-
 date.r051 P49
- PUTNAM'S monthly magazine. 16v. 1853-70.....r051 P99
 No more published.
 v.10 title reads "Emerson's magazine and Putnam's monthly."
- REVIEW of reviews; monthly. v.1-date. 1890-date.....qr051 R39
 v.16-date title reads "American monthly review of reviews."
- RIVERSIDE magazine; monthly. 4v. 1867-70.....rj051 R52
 No more published.
- ST. LOUIS public library magazine; monthly, Apr. 1897-Nov.
 1898. v.4-5. 1897-1900.....qr051 S14
 A continuation of the "Bulletin of the St. Louis public library," under
 which title the first three volumes were issued.
 No more published.
- ST. NICHOLAS; monthly, Nov. 1873-date. v.1-date. 1874-
 date.rj051 S14
 ———Index, v.1-21. 1894.
 ———Index, v.1-27. 1901.
- The same.* v.1-date. 1874-date.....j051 S14
- SCRIBNER'S magazine; monthly. v.1-date. 1887-date....r051 S43
The same. v.27-date. 1900-date.....051 S43
- SCRIBNER'S monthly. v.1-date. 1871-date.....r051 S431
 v.23-date title reads "Century illustrated monthly magazine."
- The same.* v.58-date. 1899-date.....051 S431
- SOUTHERN literary messenger; monthly, Jan. 1837-June
 1864. v.3-36. 1837-64.....qr051 S72
 Pts. of v.32 & 35 wanting.
 v.12-13 title reads "Southern and Western literary messenger and
 review."
- WIDE awake; monthly. 37v. 1875-93.....rj051 W67
 Incorporated with "St. Nicholas" in Sept. 1893.
- WORLD'S work; monthly, Nov. 1900-date. v.1-date. 1901-
 date.qr051 W89
- YOUTH'S companion; weekly. v.57-date. 1884-date.....qrj051 Y42

052 English periodicals

- ALL the year round; a weekly journal; conducted by Charles Dickens, April 30, 1859–March 30, 1895. 76v. 1859–95...qro52 A41
After March 30, 1895, this publication was discontinued and the magazine incorporated with "Household words."
- ANGLO-SAXON review; a quarterly miscellany; ed. by Lady Randolph Spencer Churchill. 10v. 1899–1901.....qro52 A58
No more published.
- ANTIQUARIAN magazine & bibliographer; ed. by Edward Walford; monthly. 12v. 1882–87.....ro52 A63
v.8–12 title reads "Walford's antiquarian magazine and bibliographical review;" v.11–12 are edited by G. W. Redway.
No more published.
- ARGOSY; monthly. 75v. 1866–1901.....ro52 A69
No more published.
- BELGRAVIA; monthly. 98v. 1867–99.....ro52 B39
Publication ceased with June 1899.
- BENTLEY'S miscellany; monthly. 64v. 1837–68.....ro52 B44
No more published. Incorporated with "Temple bar."
- BLACKWOOD'S Edinburgh magazine; monthly. v.1–date.
1817–date.ro52 B51
———General index, v.1–50. 1855.
- BRITISH and foreign review; or, European quarterly journal.
18v. 1835–44.....ro52 B756
No more published.
- BRITISH quarterly review. 83v. 1845–86.....ro52 B75
No more published.
- CHAMBERS'S Edinburgh journal; weekly. v.1–date. 1833–
date.qro52 C35
v.33–date title reads "Chambers's journal."
- CONTEMPORARY review; monthly. v.1–date. 1866–date..ro52 C76
- CORNHILL magazine; monthly. v.1–date. 1860–date.....ro52 C82
- COSMOPOLIS; an international monthly review. 12v.
1896–98.ro52 C83
No more published.
- DARK blue; monthly. v.1–5, no.1, in 4. 1871–73.....ro52 D25
No more published.
- DUBLIN university magazine; monthly. 96v. 1833–80.....ro52 D85
v.91–96 title reads "University magazine."
v.96 consists of two quarterly numbers.
No more published.
- EDINBURGH review; quarterly, Oct. 1802–date. v.1–date.
1814–date.ro52 E28
———General index, v.1–20. 1813.
———General index, v.21–50. 1832.
———General index, v.51–80. 1850.
———General index, v.81–110. 1862.
———General index, v.111–140. 1876.
- ENGLISH illustrated magazine; monthly, 1883–date. v.1–
date. 1884–date.....qro52 E64
- FOREIGN quarterly review. 37v. 1827–46.....ro52 F76
No more published.
- FORTNIGHTLY review. v.1–date. 1865–date.....ro52 F79
- FRASER'S magazine; monthly. 106v. 1830–82.....ro52 F88
No more published.

- GENTLEMAN'S magazine; monthly, 1731-May 1868. 138v.
 in 221. 1806-68.....r052 G29
 ———General index, 1731-1786. 2v. 1818.
 ———General index, 1787-1818. 2v. 1821.
 ———Complete list of plates and wood-cuts, 1731-1818. 1821.
 v.30, 1760; v.90, pt.1, Jan.-June 1820, wanting.
The same, new ser. June 1868-date. v.1-date. 1868-date..r052 G29g
- HOUSEHOLD words; a weekly journal; conducted by
 Charles Dickens. 19v. 1850-59.....r052 H83
 Continued as "All the year round."
- HOWITT'S journal of literature and popular progress; ed.
 by William and Mary Howitt; weekly. 3v. 1847-48..qr052 H86
 In 1849 incorporated with the "People's journal" and continued as
 "People's and Howitt's journal."
- IDLER; monthly. v.1-date. 1892-date.....r052 I14
- ILLUMINATED magazine; ed. by Douglas Jerrold; monthly.
 4v. 1843-45.....qr052 I22
 No more published.
- KNIGHT'S penny magazine. *See* Penny magazine.
- LEISURE hour; weekly and monthly. v.1-date. 1852-date..qr052 L56
 ———Index, v.1-25.
- LITERATURE; ed. by H. D. Traill; weekly. 9v. 1898-1902..qr052 L74
 United with the "Academy," Jan. 18, 1902.
- LONDON magazine; or, Gentleman's monthly intelligencer.
 v.1-54. 1732-85.....r052 L822
 ———General index, v.1-27. 1760.
 v.5-16 title reads "London magazine and monthly chronologer."
- LONDON quarterly review. v.1-date. 1853-date.....r052 L82
- LONDON review; quarterly. *See* Westminster review.
- LONGMAN'S magazine; monthly, Nov. 1882-date. v.1-date.
 1883-date.r052 L83
- MACMILLAN'S magazine; monthly, Nov. 1859-date. v.1-
 date. 1860-date.....r052 M21
- MONTHLY review. v.1-date. 1900-date.....qr052 M86
- MURRAY'S magazine; a home and colonial periodical;
 monthly. 10v. 1887-91.....r052 M97
 No more published.
- NATIONAL review; monthly. v.1-date. 1883-date.....r052 N155
- NATIONAL review; quarterly. 19v. 1855-64.....r052 N15
 No more published.
- NEW review; monthly. 17v. 1889-97.....r052 N28
 No more published.
- NINETEENTH century; monthly. v.1-date. 1877-date...r052 N36
- NORTH British review; quarterly. 53v. 1844-71.....r052 N45
 No more published.
- NOTES and queries; weekly, Nov. 1849-date. v.1-date.
 1850-date.r052 N47
 ———Index, v.1-12. 1856.
 ———Index, v.13-24. 1862.
 ———Index, v.25-36. 1868.
 ———Index, v.37-48. 1874.
 ———Index, v.49-60. 1880.
 ———Index, v.61-72. 1886.
 ———Index, v.73-84. 1892.
 ———Index, v.85-96. 1898.
- ONCE a week; July 2, 1859-Aug. 29, 1874. v.1-30. 1859-74..r052 O25

- OUTLOOK in politics, life, letters and the arts; weekly. v.1—
date. 1898—date.....qr052 O32
- PALL Mall magazine; monthly. v.1—date. 1893—date.....r052 P18
- PENNY magazine; weekly. 16v. in 15. 1832—46.....qr052 P41
v.15—16 title reads "Knight's penny magazine."
No more published.
- PUNCH; weekly, July—Dec. 1896, 1898—date. v.III, 114—date.
1896—date.....qr052 P98
- QUARTERLY review, Feb. 1809—date. v.1—date. 1810—date..r052 Q19
——General index, v.1—19. 1820.
——General index, v.21—39. 1831.
——General index, v.41—59. 1839.
——General index, v.61—79. 1850.
——General index, v.81—99. 1858.
——General index, v.101—120. 1867.
——General index, v.122—139. 1876.
——General index, v.141—159. 1885.
——General index, v.161—180. 1895.
- RETROSPECTIVE review. 18v. 1820—54.....r052 R36
Not published between the years 1829 and 1852.
- SCOTTISH review; quarterly. v.1—date. 1883—date.....r052 S42
- SPIELMANN, Marion Harry.
History of "Punch." 1895.....052 S75
- SPIRIT of the public journals, 1797—1801. v.1—5. 1799—1802...r052 S75
Annual selections, chiefly prose, from the contemporary newspapers and
other publications.
- STRAND magazine; an illustrated monthly. v.1—date. 1891—
date.....r052 S89
- TAIT'S Edinburgh magazine; monthly. v.11—12. 1844—45..qr052 T14
- TEMPLE bar; a London magazine; monthly. v.1—date.
1861—date.....r052 T28
——Index, v.1—99, 1860—1893.
- TIME; a monthly miscellany. 23v. 1879—90.....r052 T47
No more published.
- UNIVERSAL review; ed. by Harry Quilter; monthly, May
1888—Dec. 1890. 8v. 1888—90.....qr052 U25
No more published.
- UNIVERSITY magazine. See Dublin university magazine.
- WALFORD'S antiquarian magazine and bibliographical re-
view. See Antiquarian magazine.
- WESTMINSTER review; quarterly and monthly. v.1—date.
1824—date.....qr052 W56
For changes in title and numbering of volumes see Boston Athenæum
catalogue, v.5, p.3297.
- WORLD, by Adam Fitz-Adam; weekly. 4v. 1753—56.....qr052 W89
Edited by Edward Moore, who wrote 61 out of 210 numbers. No more
published.
"My design in this paper is to ridicule, with novelty and good-humour,
the fashions, follies, vices and absurdities of the human species which
calls itself the World, and to trace it through all its business, pleasures
and amusements." *Editor*.
Among the contributors to the "World" were Lord Lyttelton, its pro-
jector, the earls of Chesterfield, Bath and Cork, and Horace Walpole.

053-055 Foreign periodicals

- DEUTSCHE rundschau; hrsg. von Julius Rodenberg; month-
ly. v.1—date. 1874—date.....r053 D48
——Generalregister, v.1—40. 1885.
——Generalregister, v.41—80. 1896.

- ÜBER land und meer; allgemeine illustrierte zeitung; weekly.
v.49-54. 1883-85.....qr053 U12
- REVUE des deux mondes; bi-weekly, 65e année-date. v.132-
date. 1895-date.....qr054 R37
- REVUE politique et littéraire, revue bleue; weekly. series 4,
v.7-date. 1897-date.....qr054 R37r
- NUOVA antologia di lettere, scienze ed arti; semi-monthly.
v.169-date. 1900-date.....r055 N52

060 General societies

- BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
Year-book, 1893/94, 1898/99-1899/1900. v.6, 11-12. 1894-
1900.r061 B77
- ESSEX INSTITUTE, Salem, Mass.
Bulletin; monthly, quarterly and semi-yearly, 1869-date.
v.1-30. 1870-98.....r061 E84
No more published.
- Proceedings, and communications, 1848-1870. 6v. in 3.
1856-71.r061 E84p
v.4-6, "Proceedings" and "Communications" have separate title-pages.
No more published.
- ROYAL SOCIETY OF CANADA.
Proceedings and transactions, 1882-1894, 1900-date. v.1-12,
19-date. 1883-date.....qr061 R81
v.12 contains a general index to v.1-12.
- HUME, Abraham.
Learned societies and printing clubs of the United King-
dom. 1847.....r062 H92

070 Newspapers, journalism

- BOURNE, Henry Richard Fox.
English newspapers; chapters in the history of journalism.
2v. 1887.....072 B65
- BUCKINGHAM, Joseph Tinker.
Specimens of newspaper literature. 2v. 1852.....r071 B85
- COOPER, Charles Alfred.
An editor's retrospect; fifty years of newspaper work. 1896..070 C78
- DANA, Charles Anderson.
Art of newspaper making. 1895.....070 D19
- GRANT, James.
Newspaper press; its origin, progress and present position.
3v. 1871.....r070 G78
v.3 title reads "The metropolitan weekly and provincial press."
- HARTMANN, Martin.
The Arabic press of Egypt. 1899.....079 H32
List of newspapers and periodicals that have appeared or are now (1899)
appearing in Egypt, p.52-86.

HILL, Ashbel Fairchilds.

Secrets of the sanctum; an inside view of an editor's life.

1875.r070 H55

HUDSON, Frederic.

Journalism in the United States, 1690-1872. 1873.....071 H88

PERRIN, William Henry.

Pioneer press of Kentucky, from the printing of the first paper west of the Alleghanies, Aug. 11, 1787, to the establishment of the daily press in 1830. 1888. (Filson club. Publications.).....qr071 P44

RITENOUR, John S.

Journalism as a profession. 1899.....070 R51

First published in the "Forum," v.25.

Newspaper directories

HUBBARD'S newspaper and bank directory of the world.

v.3. 1883-84.....r070 H87

PETTENGILL'S newspaper directory and advertisers' hand-

book for 1877, comprising a complete list of the newspapers and other periodicals published in the United States and British America. 1877.....r071 P46

REMINGTON, Edward Pym, *pub.*

Annual newspaper directory, 1901-02; a list of all newspapers and other periodical publications of the United States and Canada. 2v. 1901-02.....r071 R333

REMINGTON BROTHERS, *pub.*

Newspaper manual; a catalogue of the newspapers of the United States and Canada, 1892. v.6. 1892.....r071 R33

ROWELL, (George P.) & CO. *pub.*

American newspaper directory, 1873, 1895, 1898, 1902. v.5,

27, 30, 34. 1873-1902.....qr071 R79

WILLING, James, *pub.*

British & Irish press guide. v.22-date. 1895-date.....r072 W75

071 American newspapers

AMERICAN manufacturer; weekly. v.12-13, no.28, in 1.

1841-42. Pittsburgh.....qr071 A512

United with the "Pittsburgh mercury" to form the "Pittsburgh post."

AMERICAN weekly mercury, 1719-21. v.1-2. 1898.....qr071 A51

Republished in facsimile by the Colonial society of Pennsylvania.

BOSTON evening transcript; daily, Nov. 1, 1895-date. 1895-

date.qr071 B64

CHICAGO times-herald; daily, Nov. 5, 1895-date. 1895-date..qr071 C43

GREENSBURG, Pa. Farmers' register; weekly, June 21, 1799-

Apr. 24, 1802. v.1, no.5-v.2, no.153, in 1. 1799-1802.....qr071 G84

v.1, no.6-11, 13, 34-35, 43, 47, 82-86, 93; v.2, no.111, 140, 146 wanting.

HARPER'S bazar; weekly. v.1-date. 1867-date.....qr071 H284

v.29-32 wanting.

HARPER'S weekly. v.1-date. 1857-date.....qr071 H28

- ILLUSTRATED news, New York; weekly. v.1-2, no.48.
1853.qro7I I22
- INDEPENDENT; weekly. v.48-date. 1896-date.....qro7I I24
- INDEPENDENT balance, by Democritus the younger; weekly, Apr. 16, 1817-May 13, 1818, May 16-June 13, 1821.
v.1-2, no.5; v.5, no.6-10, in 1. 1817-21.....qro7I P39
v.1, no.16, 25, 37, 46; v.2, no.2; v.5, no.9 wanting.
Bound with the "Pennsylvania farmer."
- INDEX of Pittsburgh life; weekly, Oct. 6, 1900-date. v.6-date. 1900-date.....qro7I I242
- NATION; weekly. v.1-date. 1865-date.....qro7I N15
- NEW-YORK daily times, May 9, 1854-Nov. 29, 1896. v.3, no.824-v.46, no.14127. 1854-96.....qro7I N26d
v.3, no.824-825 title reads "New-York evening times." v.7, Jan.-Aug. 1858, wanting.
Sept. 6, 1857-Nov. 29, 1896 title reads "New-York times."
- NEW-YORK daily tribune, Jan. 1, 1859-date. v.18-date.
1859-date.qro7I N261t
"New-York tribune," Nov. 6-7, 14, 1857; Dec. 3-5, 7-9, 11, 19, 1857; July 17, 19, 21, 26, 27, 28, 1858 bound with v.7-8, Sept.-Dec. 1858, of the "New-York times."
April 10, 1866-date title reads "New-York tribune."
Index to the daily Tribune, 1876-77, 1880-88, 1890-date.
1876-date.ro7I N26I
- NEW YORK, Evening post; daily. v.93-date. 1894-date..qro7I N26e
- NEW-YORK mirror; a weekly journal. v.16. 1838-39.....qro7I N26
- NEW YORK, Sun; daily, July 1, 1884-date. v.51, no.305-date. 1884-date.....qro7I N26s
- OUTLOOK; weekly. v.48-date. 1893-date.....qro7I O32
- PENNSYLVANIA farmer; weekly, Aug. 26, 1812-Sept. 1, 1813. v.1-2, no.2, in 1. 1812-13.....qro7I P39
v.1, no.35, 39, 42 wanting.
- PENNSYLVANIAN; daily, Nov. 13, 1846-Dec. 30, 1850. v.28, no.4701-v.35, no.6977, in 4. 1846-50.....qro7I P399
May-Dec. 1849 wanting.
- PHILADELPHIA, North American; daily, Feb. 6, 1877-Apr. 26, 1878. 1877-78.....qro7I P49
Running title reads "Philadelphia North American and United States gazette."
- PHILADELPHIA, Press; daily, Jan. 4, 1858-date. v.1, no.131-date. 1858-date.....qro7I P49p
Dec. 11-17, 1866; Feb. 6, 1877-Apr. 22, 1878, wanting.
July 5, 1880-Feb. 2, 1885 title reads "Philadelphia press."
- PHILADELPHIA, United States gazette; semi-weekly, Apr. 7-Dec. 8, 1813. v.13, no.1238-1308. 1813.....qro7I P494
Imperfect.
- PITTSBURG bulletin; a weekly journal, Nov. 9, 1895-date. v.32-date. 1896-date.....qro7I P67b
- PITTSBURGH chronicle telegraph; daily, Jan. 2, 1884-date. 1884-date.qro7I P674
Formed by the union of the "Pittsburgh morning chronicle" and the "Pittsburgh evening telegraph."
- PITTSBURGH commercial; daily, July 1, 1864-Feb. 14, 1877. v.1, no.249-v.14, no.134. 1864-77.....qro7I P67c
On Feb. 15, 1877, the "Pittsburgh commercial" united with the "Pittsburgh gazette" under the title "Pittsburgh gazette-commercial."

- The same*; weekly, Nov. 9, 1867–Oct. 31, 1868, 1869, 1872, 1875. v.5, v.6, no.9–v.7, no.8, v.9, no.9–v.10, no.8, v.12, no.8–v.13, no.7, in 4. 1867–75.....qro7I P67co
- PITTSBURGH, Daily advocate and advertiser; Oct. 18, 1839–Nov. 6, 1840. v.8, no.16–v.9, no.32. 1839–40.....qro7I P67dai
The Pittsburgh "Weekly advocate and emporium," Nov. 13, 1840–Jan. 29, 1841; and the "Pittsburgh gazette," Nov. 20, 27, Dec. 18, 1840 are bound with the Pittsburgh "Daily advocate and advertiser."
- PITTSBURGH, Daily commercial journal; Dec. 31–April 23, 1846, Jan. 1, 1848–April 30, 1849. v.4–5. 1846–49....qro7I P67d
- PITTSBURG daily dispatch; Aug. 9, 1847–Dec. 1850; Jan. 1855–Jan. 1863; Jan. 1864–June 1864; Nov. 4, 1895–date. 1847–dateqro7I P67di
Nov. 4, 1895–date title reads "Pittsburg dispatch."
- PITTSBURG daily news, March 16, 1896–Jan. 8, 1901. 19v.
1896–1901.....qro7I P67n
No more published.
- PITTSBURGH, Daily Pittsburger; Jan. 3, 1840–Oct. 28, 1840. v.1, no.211–v.2, no.142, in 1. 1840.....qro7I P67da
- PITTSBURGH evening telegraph; daily, Apr. 16, 1873–Dec. 31, 1883. 1873–83.....qro7I P67te
United with the "Pittsburgh morning chronicle" to form the "Pittsburgh chronicle telegraph."
May 6, 1876–Dec. 1883 title reads "Pittsburgh telegraph."
- The same*; weekly, Mar. 27, 1847–Mar. 22, 1848, Apr. 17, 1875–Aug. 21, 1880. 1847–80.....qro7I P67te2
Mar. 27, 1847–Mar. 22, 1848 title reads "Pittsburgh telegraph;" Apr. 17, 1875–Aug. 21, 1880 title reads "Pittsburgh weekly telegraph."
- PITTSBURGH, Der freiheits freund; daily, Dec. 10, 1844–date. 1844–date.....qro7I P67f
May 8–Dec. 13, 1847, 1849, Jan.–June 1850, Mar. 28–July 19, 1853 wanting.
Dec. 1844–Nov. 1845, Dec. 1847–Dec. 1848, July–Dec. 1850 title reads "Der freiheits freund und Pittsburger beobachter;" May 1851–Mar. 1852 title reads "Der tägliche freiheitsfreund;" July 1860–Dec. 1864 title reads "Der freiheits freund und Pittsburger courier;" Feb. 1901–date title reads "Volksblatt und freiheits-freund."
- The same*; weekly, July 2, 1852–June 29, 1866, Jan. 3, 1873–June 27, 1890. 1852–90.....qro7I P67f2
July 1852–Sept. 1860 title reads "Der freiheits freund und Pittsburger beobachter;" Oct. 1861–June 1866, Jan. 1873–June 1890 title reads "Der freiheits freund und Pittsburger courier."
- PITTSBURGH gazette; daily, July 30, 1833–date. v.48, no.91–date. 1833–date.....qro7I P67g
Aug. 1834–Dec. 1835, Apr. 12–Oct. 31, 1836, July 1837–Oct. 16, 1839, Feb. 25, 1841–July 23, 1844 wanting.
The "Pittsburgh gazette" for Nov. 20, 27, Dec. 18, 1840 is bound with Pittsburgh, "Daily advocate and advertiser," v.8–9.
The "Weekly gazette" for Jan. 1–March 18, 1868 is bound with v.82–83 of the "Pittsburgh gazette."
The "Pittsburgh weekly gazette" for Jan. 1–June 28, 1873, is bound with v.88 of the "Pittsburgh gazette."
Various titles read "Pittsburgh daily gazette and advertiser," "Pittsburgh daily gazette," "Daily Pittsburgh gazette," "Daily Pittsburgh gazette and commercial journal."
On Feb. 15, 1877 the "Pittsburgh commercial" united with the "Pittsburgh gazette" under the title "Pittsburgh gazette-commercial."
Feb. 26, 1877–date title reads "Pittsburgh commercial gazette."
- PITTSBURGH, Iron city and Pittsburgh weekly chronicle, Nov. 27, 1841–Nov. 19, 1842, Jan. 5, 1853–July 26, 1854. v.1, v.12, no.6–v.13, no.40, in 2. 1841–54.....qro7I P67i

- PITTSBURG leader; daily, Nov. 4, 1895-date. v.47, no.146-date. 1895-date.....qro7I P67l
- PITTSBURGH mercury; weekly, July 9, 1812-June 24, 1815; July 4, 1817-June 15, 1824; July 5, 1826-June 3, 1828; Jan. 1, 1835-Aug. 31, 1842. v.1-3, 6-12, 15-16, 23, no.1183-v.31, no.27, in 10. 1812-42.....qro7I P67me
United with the "American manufacturer" to form the "Pittsburgh post."
- PITTSBURGH, Morning chronicle; daily, Feb. 16, 1842-Sept. 29, 1883. 1842-83.....qro7I P67m
July 1, 1848-Sept. 16, 1849, Mar. 29, 1855-Feb. 10, 1856, May 8, 1856-Feb. 7, 1858, Aug. 12, 1863-Feb. 11, 1864, Feb. 1-Aug. 31, 1868 wanting. Oct. 17, 1851-Sept. 29, 1883 title reads "Pittsburgh evening chronicle." United with the "Pittsburgh evening telegraph" to form the "Pittsburgh chronicle telegraph."
- PITTSBURGH post; daily. v.1-date. 1842-date.....qro7I P67
Formed by the union of the "American manufacturer" and "Pittsburgh mercury."
- PITTSBURG press; daily, Nov. 4, 1895-date. v.12, no.305-date. 1895-date.....qro7I P67p
- PITTSBURGH, Saturday dollar chronicle, Aug. 27, 1859-Dec. 28, 1861. 1859-61.....qro7I P67s
- PITTSBURG times; daily, Nov. 4, 1895-date. v.16, no.259-date. 1895-date.....qro7I P67t
- PITTSBURGH times; weekly, Nov. 8, 1837-Nov. 21, 1838. v.7-8, in 1. 1837-38.....qro7I P67ti
- PITTSBURGH, Weekly mercury and manufacturer; Sept. 10, 1842-July 19, 1845. v.1, no.1-v.3, no.46, in 3. 1842-45..qro7I P67w
- POULSON'S American daily advertiser, June 2, 1819-Dec. 1, 1819. v.48. 1819.....qro7I P86
- PUBLIC opinion; weekly. v.1-date. 1886-date.....qro7I P98
- REMARKUES; a home news-magazine; weekly, Sept. 1, 1900-Feb. 23, 1901, Sept. 13, 1902-Jan. 28, 1905. v.1, 4-5. 1900-05. Pittsburgh.....qro7I R331
Discontinued.
- ROWELL, (George P.) & CO. *pub.*
American newspaper directory, 1873, 1895, 1898, 1902. v.5, 27, 30, 34. 1873-1902.....qro7I R79
- SATURDAY evening post; weekly, Oct. 14, 1826-Dec. 29, 1832. v.5, no.272-v.12, no.596, in 2. 1826-32.....qro7I S25
v.10-12 title reads "Atkinson's Saturday evening post."
- The TICKLER, by Toby Scratch 'em; weekly. v.2, no.18-v.3, no.14, in 1. 1809-10.....qro7I P39
v.2, no.23, 27, 45, 47-48 wanting.
Bound with the "Pennsylvania farmer."
- UNIONTOWN, Pa. Genius of liberty; weekly, Apr. 25, 1872-Dec. 27, 1900. v.68-96. 1872-1900.....qro7I U253
v.69, no.30, 32; v.70, no.11; v.71, no.24, 47; v.75, no.8; v.79, no.4, 28-31; v.96, no.32 wanting.
- The UNIVERSE; an illustrated weekly newspaper for young people and busy men and women. v.1, pt.1-4, in 5. 1898-Feb. 16, 1899.....rjo7I U25
No more published.
- WASHINGTON, (D. C.) Daily morning chronicle, Nov. 21, 1867-Sept. 5, 1870. v.6-8, in 6. 1867-70.....qro7I W27d

- WASHINGTON, (D. C.) Daily national intelligencer, Feb.
12, 1836–March 30, 1867. v.24–67, in 38. 1836–67....qro7I W27da
Jan. 1838–Sept. 1840 wanting.
- WASHINGTON, (D. C.) Daily union, May 1, 1846–March 6,
1847; Aug. 20, 1848–May 13, 1849. v.2, 4–5, in 2. 1846–49...qro7I W27
- WASHINGTON, (D. C.) National intelligencer; tri-weekly,
Jan. 15, 1818–Dec. 29, 1853. v.19–54, in 16. 1818–53...qro7I W27n
Oct. 1819–Nov. 1829 wanting.

072-073 English and German newspapers

- ACADEMY; monthly and weekly. v.1–date. 1869–date....qro72 A16
In Jan. 1902 "Literature" was incorporated with the "Academy" under
the title "Academy and literature."
- ATHENÆUM; weekly. v.1–date. 1828–date.....qro72 A86
- GRAPHIC; an illustrated weekly newspaper, Dec. 1869–Dec.
1870, Jan. 1900–date. v.1–2, 61–date. 1870–date.....qro72 G79
- ILLUSTRATED London news; weekly, May 1842–date. v.1–
date. 1843–date.....qro72 I22
- LONDON, Evening mail; semiweekly, Nov. 2–5, 1792, Oct.
23, 1793–Apr. 8, 1795. 1792–95.....qro72 L82I
- LONDON, Times; daily, Jan. 2, 1871–date. 1871–date.....qro72 L82
Jan. 1892–Oct. 22, 1895 wanting.
- PALMER, Samuel, *pub.*
Index to the Times newspaper, April 1, 1873–date. v.40–
date. 1877–date.....ro72 P19
- SMITH'S index to the leading articles of the Times, for the
five years ended Dec. 1900. pt.1.....ro72 S66
pt.1. Proper names (places excepted).
- SATURDAY review of politics, literature, science and art;
weekly. v.1–date. 1856–date.....qro72 S25
- SPECTATOR; a weekly journal. v.5–date. 1832–date.....qro72 S74
v.26, 1853; v.32, 1859; v.36–43, 1863–1870, wanting.
- Die NATION; wochenschrift für politik, volkswirthschaft und
litteratur, Oct. 6, 1900–date. v.18–date. 1900–date....qro73 N15

090 Book rarities

GOSSE, Edmund William.

Gossip in a library. 1893.....090 G69

Contents: Camden's Britannia.—A mirror for magistrates.—A poet in
prison, Wither.—Death's duel.—Gerard's Herbal.—Pharamond.—A vol-
ume of old plays.—A censor of poets, Winstanley.—Lady Winchilsea's
Poems.—Amasia.—Love and business.—What Ann Lang read.—Cats.
—Smart's Poems.—Pompey the Little.—The life of John Bunce.—
Beau Nash.—The diary of a lover of literature.—Peter Bell and his tor-
mentors.—The fancy.—Ultra-crepidarius.—The duke of Rutland's
Poems.—Ionica.—The shaving of Shagpat.

LAWLER, John.

Book auctions in England in the 17th century (1676–1700).

1898. (Book-lover's library.).....090 L4I

ROBERTS, William.

Rare books and their prices, with chapters on pictures, pottery, porcelain and postage stamps. 1896.....r090 R53

DRAPER, Lyman C.

Essay on the autographic collections of the signers of the Declaration of independence and of the constitution. 1889.qr091 D79

LECOY de la MARCHE, Albert.

Les manuscrits et la miniature. (Bibliothèque de l'enseignement des beaux-arts.).....091 L49

MADAN, Falconer.

Books in manuscript. 1893. (Books about books.).....091 M23
List of books useful for the study of manuscripts, p.175-181.

BRITISH MUSEUM.

Facsimiles from early printed books in the British museum; selected pages from representative specimens of the early printed books of Germany, Italy, France, Holland and England. 1897.....qr093 B75

DUFF, Edward Gordon.

Early printed books. 1893. (Books about books.).....093 D87

APPIANUS, of Alexandria.

Delle guerre civili et esterne de Romani, aggiuntoui alla fine un libro del medesimo delle guerre di Hispagna, non più ueduto. 2v. 1551.....r094 A64
The imprint is In Vinegia, in casa de' figlivoli di Aldo.

CAXTON, William.

The golden legend; ed. by F. S. Ellis. 3v. 1892.....qr094 C29
This is the seventh of the publications of the Kelmscott press and was set up from a transcript of Caxton's first edition loaned by the Cambridge university library. It has a woodcut title, the first one designed by William Morris, and two other woodcuts designed by Burne-Jones.

CLUVERIUS, Philippus.

Introductio in universam geographiam, tam veterem quam novam, libri VI; accessit P. Bertij Breviarium orbis terrarum. 1677.....r094 C62
The imprint is Amstelodami, apud Elzevirios.

GROTIUS, Hugo, and others.

Dissertationes de studiis instituendis. 1645.....r094 G94
The imprint is Amsterodami, apud Ludovicum Elzevirium.

HERODIANUS.

Historiarum libri 8, Græce pariter & Latine. 1524.....r094 H47
The imprint is Venetiis, ædibus Aldi.

LONG ISLAND HISTORICAL SOCIETY.

Manuscripts and early printed books bequeathed to the Long Island historical society by S. B. Duryea. 1895..qr094 L82

LUTHER, Martin.

Etliche schöne trost, schriffte des ehrwürdigen Herrn Doctoris Martini Lutheri; so er an den durchleuchtigste, fürsten un̄ Herrn Hertzog Joannes, churfürsten zu Sachsen, gottseliger gedechtnis, und an andere seine herrn und gute freunde gethan, sehr tröstlichen zu lesen. 1547.....r094 L98

MATURANTIUS, Franciscus.

De componendis carminibus opusculum; Nicolai Perotti

Sypontini De generibus metrorum; Eiusdem De Horatii
Flacci ac Severini Boetii metris; Omni boni Vicentini
De arte metrica libellus; Servii Mauri honorati gram-
matici Centimetrum. 1512. Venetiis.....r094 M48
Six commentaries upon metre and verse making, a fine example of the
typography of the Venetian press in the early 16th century. Contains
marginal annotations in manuscript. Printer unknown.

MIRANDULA, Octavianus, *comp.*

Illustrium poëtarum flores, collecti & in locos communes
digesti. 1553. Lugduni.....r094 M73
Latin poems. Of interest chiefly as a specimen of early printing. Type
is mostly italic. Contains an index and is bound in the original
stamped calf. Printed by Tornæsius.

WAGNER, Bartholomæus.

Hundert alldächtiger gottseliger vund catholischer lehr-
reicher ausslegungen oder predigen uber alle sontäg-
liche und feyertägliche evangelien dess gantzen jahrs.
1607.qr094 W13
Sermons for each Sunday and feast day. An example of early 17th
century printing.

DAVENPORT, Cyril.

English embroidered bookbindings. 1899. (English book-
man's library.).....095 D29

CONWAY, Sir William Martin.

Woodcutters of the Netherlands in the 15th century. 1884..096 C76
Contents: History of the woodcutters.—Catalogue of the woodcuts.—
List of the books containing woodcuts.

HUMPHREYS, Henry Noel.

The illuminated books of the middle ages, illustrated by
Owen Jones. 1849.....qr096 H92
Account of the development and progress of the art of illumination as
a distinct branch of pictorial ornamentation, from the 4th to the 17th
centuries. The illustrations, printed in colors and of the size of the
originals, were chosen from the most beautiful mss of the period.

POLLARD, Alfred William.

Early illustrated books. 1893. (Books about books.).....096 P76

QUARITCH, Bernard, *pub.*

Facsimiles of choice examples selected from illuminated
manuscripts, unpublished drawings and illustrated
books of early date. v.3. 1890.....qr016.94 Q18f
Bound with his "Catalogue of medieval literature."

SHAW, Henry.

Handbook of the art of illumination as practised during
the middle ages, with a description of the metals, pig-
ments and processes employed. 1866.....qr096 S53h
In early ages monasteries were the schools of art, and these beautiful ex-
amples of the work of the monks, still extant, in the illuminations of
both religious and profane books, are evidences of their skill and
patience. The art died out soon after the birth of printing. This
volume exhibits, in facsimile, some of the richest work in this line.

Illuminated ornaments selected from manuscripts and early
printed books from the 6th to the 17th centuries, with
descriptions by Sir Frederic Madden. 1833.....qr096 S53

TREDWELL, Daniel M.

Monograph on privately illustrated books; a plea for bib-
liomania. 1892.....qr096 T71

WYATT, Sir Matthew Digby.

Art of illuminating as practised in Europe from the earliest times, illustrated by borders, initial letters and alphabets, selected & chromolithographed by W. R. Tymms.

1860.qro96 W97

M., T. of *New York, comp.*

Witty, humorous and merry thoughts.....ro99 M11

This and the following book are examples of minute size and typography. Each is accompanied by a magnifying glass.

STOKES, (Frederic A.) CO. *pub.*

Smallest English dictionary in the world.....ro99 S87

097 Book-plates

ALLEN, Charles Dexter.

American book-plates, with a bibliography by E. N. Hewins.

1894.097 A42

BOWDOIN, William Goodrich.

Rise of the book-plate; an exemplification of the art, from its earliest to its most recent practice. 1901.....097 B66

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Chief value lies in the reproduction of some hundreds of selected examples of book-plates, new and old, classified by countries. Contains also a chapter by Henry Blackwell on the study and arrangement of book-plates, and a register of the more important recent American designers and engravers of book-plates.

CASTLE, Egerton.

English book-plates; an illustrated handbook. 1892.....097 C27

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FINCHAM, Henry Walter.

Artists and engravers of British and American book plates; a book of reference for book plate and print collectors.

1897.qro97 F49

Contains the names of about 1500 artists and engravers of book-plates, with lists of the plates executed by them. Gives also the approximate date of each plate and a copy of the artist's signature. Illustrations of many of the plates are given.

HAMILTON, Walter.

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Contents: A survey; introductory and historical.—Systems of classification. — Noted engravers of English plates. — American plates. — The principles of valuation.—Alphabetical list of some of the most noted book-plates, arranged under their owners' names, with the prices realized at auction for the same.

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100 General works

RENAN, Ernest.

The future of science; ideas of 1848. 1891.....100 R33
HARRIS, William Torrey.

Introduction to the study of philosophy. 1894.....102 H29

ROBERTSON, George Croom.

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104 Essays

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Lectures and essays. 1886.....104 C58

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v.1—date. 1896—date.....r104 C72

v.1. Wilde, Norman. Friedrich Heinrich Jacobi. — Kant, Immanuel. Kant's inaugural dissertation of 1770.—Hertz, J. H. Ethical system of James Martineau.—Brandt, F. B. Friedrich Eduard Beneke.

v.2. Luqueer, F. L. Hegel as educator. — MacVannel, J. A. Hegel's doctrine of the will. — Cole, L. T. Basis of early Christian theism. — Jones, A. L. Early American philosophers.

v.3. Washington, W. M. Formal and material elements of Kant's ethics.—Hyslop, J. H. Syllabus of psychology.—Marvin, W. T. Syllabus of an introduction to philosophy.

v.4. Griffing, Harold. Sensations from pressure and impact. — Lay, Wilfrid. Mental imagery.—Thorndike, E. L. Animal intelligence.—Dearborn, G. V. Emotion of joy.

v.5. Dexter, E. G. Conduct and the weather.—Brees, B. B. On inhibition.—Franz, S. I. After-images.—Woodworth, R. S. Accuracy of voluntary movement.

v.6. Clews, E. W. Educational legislation and administration of the colonial governments.

v.7. Spencer, F. C. Education of the Pueblo child.—Dyke, C. B. Economic aspect of teachers' salaries.—Chamberlain, W. I. Education in India.—Hubbell, G. A. Horace Mann in Ohio.

v.8. Deahl, J. N. Imitation in education.—Reeder, R. R. Historical development of school readers.—Thorndike, E. L. Notes on child study.

DRESSER, Horatio Willis.

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Voices of freedom, and studies in the philosophy of indi-

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 "Anyone who has met with either of Professor James's treatises upon psychology is not likely to let the grass grow under his feet before making acquaintance with any other obtainable writings from the same witty pen... But the general public, that part of it which is interested in the religious questions of the day without going so far as to read formal treatises, must be advertised that in the collection of essays here offered them, the Harvard Professor of Psychology, one of the most acute and versatile of American men of science, has come forward into the lists as a champion of religious faith against agnosticism. He has called his book 'Essays in Popular Philosophy' because he has written without technicalities so as to appeal to a wide audience." *Spectator*, 1897.
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- RITCHIE, David George.
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Contents: Origin and validity.—Note on heredity as a factor in knowledge.—Darwin and Hegel.—What is reality?—Note on logical necessity.—On Plato's Phædo.—What are economic laws?—Locke's theory of property.—Contributions to the history of the social contract theory.—On the conception of sovereignty.—The rights of minorities.
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 Studies of good and evil; essays. 1898.....104 R81s
Contents: The problem of Job.—The case of John Bunyan.—Tennyson and pessimism.—The knowledge of good and evil.—Natural law, ethics and evolution.—The implications of self-consciousness.—Some observations on the anomalies of self-consciousness.—Self-consciousness, social consciousness and nature.—Originality and consciousness.—Meister Eckhart.—An episode of early California life, the squatter riot of 1850 in Sacramento.—Jean Marie Guyau.
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Man's place in the cosmos, and other essays. 1897.....104 S49

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HEGEL, Georg Wilhelm Friedrich.

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HÖFFDING, Harald.

History of modern philosophy; a sketch of the history of philosophy from the close of the renaissance to our own

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LEWES, George Henry.

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MAURICE, Frederick Denison.

Moral and metaphysical philosophy. 2v. 1890.....109 M49

v.1 Ancient philosophy.—First six centuries.—Mediæval philosophy.

v.2. 14th century to the French revolution, with a glimpse into the 19th century.

MERZ, John Theodore.

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SCHWEGLER, Albert.

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"It covers the whole ground of the history of the development of philosophic ideas, was written by one of the most eminent interpreters of philosophic thought, and has been translated with rare fidelity and skill." *C. K. Adams.*
- WEBER, Alfred.
History of philosophy. 1897. 109 W37

110 Metaphysics

ARISTOTLE.

Metaphysics; literally tr. fr. the Greek by J. H. M'Mahon.

1896. 110 A71

FISKE, John.

Outlines of cosmic philosophy, based on the doctrine of evolution. 2v. 1894. 110 F54

By no means a mere reproduction of Spencer's philosophy, but an independent exposition of evolutionism, showing originality, especially in regard to social evolution and the relation of religion and science.

HAMILTON, Sir William.

Lectures on metaphysics and logic; ed. by H. L. Mansel and John Veitch. 4v. 1874-77. 110 H21

v. 1-2. Metaphysics.

v. 3-4. Logic.

McCOSH, James.

First and fundamental truths; a treatise on metaphysics.

1889. 110 M12

ORMOND, Alexander Thomas.

Basal concepts in philosophy; an inquiry into being, non-being and becoming. 1894. 110 O28

"The purpose of this work is to propose a certain modification of the Hegelian system, suggested by studies in philosophical theology. The modification cuts pretty deep, being no less than the identification of Being and Spirit, two of the primary categories of the Hegelian logic ... Two things are specially urged in it. ... one the idea that personality is essential to being, the other that Nothingness has a sort of reality."
Nation, 1894.

PEARSON, Karl.

Grammar of science. 1892. (Contemporary science series.) . . 110 P35

Contents: The facts of science.—The scientific law.—Cause and effect; probability.—Space and time.—The geometry of motion.—Matter.—The laws of motion.—Life.—The classification of the sciences.

The same. 1900. 110 P35g

Contents: The facts of science.—The scientific law.—Cause and effect; probability.—Space and time.—The geometry of motion.—Matter.—The laws of motion.—Life.—Evolution (variation and selection).—Evolution (reproduction and inheritance).—The classification of the sciences. Bibliographies at the end of each chapter.

POWELL, John Wesley.

Truth and error; or, The science of intellection. 1898. 110 P87

"Depths of metaphysics are here sounded where one may as well frankly confess it is very difficult to follow the thought. In its reading the question constantly presents itself how far this difficulty of comprehension is due to one's own incapacity to grasp such subjects and how far to the writer's obscurity." *Literary world*, 1899.

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General metaphysics. (Manuals of Catholic philosophy.) 110 R43

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Philosophy of life, and Philosophy of language. 1866. 110 S33

KANT, Immanuel.

Dreams of a spirit-seer, illustrated by dreams of metaphysics;

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losophy at home series.) 111 K12

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ROYCE, Josiah.

World and the individual; Gifford lectures; 1st-2d ser. 2v.

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v.2. Nature, man and the moral order.

SPENCER, Herbert.

First principles. 1894. 113 S74

Contains the general principles which underlie the author's "System of synthetic philosophy." Commonly accepted as the ablest and most systematic exposition of the philosophy involved in the theory of evolution.

ILLINGWORTH, John Richardson.

Divine immanence; an essay on the spiritual significance of

matter. 1898. 117 I22

BALFOUR, Arthur James.

Foundations of belief. 1895 120 B19

The author exhibits his own views in comparison and contrast with that system of thought variously known as agnosticism, positivism, or empiricism, but which he calls naturalism, and describes as the doctrine "that we may know 'phenomena' and the laws by which they are connected, but nothing more." He intends the book for the general reader rather than the specialist in philosophy.

BOWNE, Borden Parker.

Theory of thought and knowledge. 1897 121 B66

"A serious, able, logical work. . . The best introduction we know to the problem, 'What should we think about reality.'" *Pedagogical seminary.*

LADD, George Trumbull.

Philosophy of knowledge; an inquiry into the nature, limits

and validity of human cognitive faculty. 1897 121 L13

ORMOND, Alexander Thomas.

Foundations of knowledge. 1900 121 O28

Contents: Ground-concepts of knowledge.—Evolution of the categories of knowledge.—The transcendent factor in knowledge.

JANET, Paul.

Final causes. 1892 124 J17

MOMERIE, Alfred Williams.

Personality, the beginning and end of metaphysics and a nec-

essary assumption in all positive philosophy. 1895 126 M81

MENDELSSOHN, Moses.

Phädon; oder, Ueber die unsterblichkeit der seele; Jerusalem;

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(Bibliothek der deutschen nationalliteratur.) 128 M61

JOHNSTON, Charles, *of the Bengal civil service.*

Memory of past births. 1899129 J36

By a believer in reincarnation, who holds that it is possible for us to recall, if we will, our past states of existence.

130 Mind and body

CARUS, Paul.

The soul of man; an investigation of the facts of physiological and experimental psychology. 1900.....130 C24

A large section of the book is devoted to an anatomical and physiological study of the brain, well illustrated. The author also considers the philosophical problem of mind, some of the investigations of experimental psychology, (hypnotism, dreams and hallucinations, suggestion and suggestibility, etc.) and the ethical and religious aspects of soul-life.

WALDSTEIN, Louis.

The subconscious self and its relation to education and health.

1897 130 W16

BAIN, Alexander.

Mind and body, the theories of their relation. 1892. (International scientific series.).....131 B16

CARPENTER, William Benjamin.

Principles of mental physiology. 1891.....131 C22

TUKE, Daniel Hack.

Illustrations of the influence of the mind upon the body in health and disease. 1872.....131 T83

132 Mental derangements

BINET, Alfred.

Alterations of personality; tr. by H. G. Baldwin. 1896.....132 B48

BUCKNILL, John Charles, & Tuke, D.H.

Manual of psychological medicine, containing the history and treatment of insanity. 1862132 B85

BURTON, Robert.

Anatomy of melancholy. 1891.....132 B95

ESQUIROL, Jean Étienne Dominique.

Mental maladies, a treatise on insanity; tr. fr. the French with additions, by E. K. Hunt. 1845132 E84

HARRISON, George Leib, *comp.*

Legislation on insanity; a collection of all the lunacy laws of the United States to 1883, also laws of England on insanity, legislation in Canada on private houses, and important portions of the lunacy laws of Germany, France, etc. 1884 132 H29

HOLLANDER, Bernard.

Mental functions of the brain; an investigation into their localisation and their manifestation in health and disease. 1901132 H72

An analysis of eight hundred cases of brain disease, including many of interest to lawyers as well as physicians.

LINCOLN, David Francis.

- Sanity of mind; a study of its conditions and of the means to its development and preservation. 1900 132 L71
 "Works on the prevention of insanity," p.167-168.
 "Discussion of how the health of the mind is lost and how it may be recovered... pays less attention to remedying than to preventing such mischief... [Author] treats mind and body as interdependent as well as coexistent, and believes that, where there are not marked anatomical changes... the pulsation in the nervous functions depends upon the fuel supplied to the engine of the mind... Volume is small, untechnical, and clear." *Nation*, 1901.

MACPHERSON, John, M. D.

- Mental affections; an introduction to the study of insanity. 1899 132 M22

MAUDSLEY, Henry.

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 Responsibility in mental disease. 1892. (International scientific series.)..... 132 M48r
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MERCIER, Charles Arthur.

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RIBOT, Théodule.

- Diseases of memory; an essay in the positive psychology. 1893. (International scientific series.) 132 R39

TUKE, Daniel Hack, *comp*.

- Dictionary of psychological medicine, with the symptoms, treatment and pathology of insanity. 2v. 1892..... 132 T83

WILSON, George R.

- Clinical studies in vice and in insanity. 1899..... 132 W76
 Detailed studies of cases of insanity, especially those induced by alcoholism.

WINSLOW, Lyttleton Stewart Forbes.

- Mad humanity; its forms, apparent and obscure. 1898..... 132 W79
 The author aims to show that the increase of insanity, which has been of a progressive nature for many years, is real and not apparent. He believes that this increase is due to alcoholic indulgence. He compares the condition of the insane as it existed a century ago with what it is at the present time, draws attention to the more common forms of mental disorder and gives a large number of examples. Technicalities and all legal and medical considerations of the subject have been avoided.

133 Delusions, witchcraft, magic

ASHTON, John.

- Curious creatures in zoology. 1890 133 A82
 A compilation, mostly from the old Greek and Latin authors, describing fabulous and mythical animals and monstrosities mentioned in tradition and folklore.

AUBREY, John.

- Miscellanies upon various subjects; with Hydriotaphia; or, Urn burial, by Sir Thomas Browne..... 133 A89
 A collection of curious delusions, omens, portents and kindred superstitions.

BUCKLEY, James Monroe.

Faith-healing, Christian science and kindred phenomena.

1892133 B85

Contents: Faith-healing.—Astrology, divination and coincidences.—
Dreams, nightmare and somnambulism.—Presentiments, visions and
apparitions.—Witchcraft.—Christian science and mind cure.

CARPENTER, William Benjamin.

Mesmerism, spiritualism, &c, historically and scientifically
considered. 1877133 C22

CROOKES, Sir William.

Researches in the phenomena of spiritualism. 1871133 C89

Reprinted from the *Quarterly journal of science.*

DENDY, Walter Cooper.

Philosophy of mystery. 1845.....133 D42

ENCAUSSE, Gerard, (*pseud.* Papus).

The Tarot of the Bohemians; the most ancient book in the

world; tr. by A. P. Morton. 1892.....133 E62

ENNEMOSER, Joseph.

History of magic; tr. fr. the German by William Howitt; to
which is added an appendix of the most remarkable and
best authenticated stories of apparitions, dreams, etc., se-
lected by Mary Howitt. 2v. 1893133 E65

FAIRFIELD, Francis Gerry.

Ten years with spiritual mediums. 1875.....133 F16

FLAMMARION, Camille.

The unknown. 1900.....133 F61

Contents: On incredulity.—On credulity.—Of telepathic communications
made by the dying, and of apparitions.—Admission of facts.—Hallu-
cinations, properly so called.—The psychic action of one mind upon
another.—The world of dreams.—Distant sight in dreams.—Premoni-
tory dreams and divination of the future.

GOOD, Arthur, (*pseud.* Tom Tit).

Magic at home; a book of amusing science; tr. by Professor

Hoffmann. 1891.....133 G62

Free translation from the French; rules for scientific recreation and
sleight-of-hand performance.

The same. 1891.....133 G62

Magical experiments; or, Science in play. 1894.....133 G62m

GOULD, Charles.

Mythical monsters. 1886133 G73

HAMMOND, William Alexander.

Physics and physiology of spiritualism. 1871.....133 H21

HARTMAN, Joseph.

Facts and mysteries of spiritism, with a sequel. 1885.....133 H32

HOME, Daniel Douglas.

Incidents in my life. 1863133 H75

HOOKE, Worthington.

Lessons from the history of medical delusions. 1850.....133 H77

HOPKINS, Albert Allis, *ed.*

Magic; stage illusions and scientific diversions, including
trick photography. 1897.....133 H78

Bibliography, p.537-550.

The same. 1897.....133 H78

In the first few chapters many of the best illusions of Robert Houdin,
Heller, Herrmann and Kellar are explained. "Ancient magic," takes

up the temple tricks of the ancient Egyptian, Greek and Roman wonder workers, as well as a number of automata. Chapters follow on Science in the theatre, Photographic diversions, etc.

HOPKINS, Nevil Monroe.

Twentieth century magic, and the construction of modern magical apparatus. 1898.....133 H785

KINGSFORD, Mrs Anna (Bonus), & Maitland, Edward.

The perfect way; or, The finding of Christ. 1890. (Occult series.)133 K27

LANG, Andrew.

Book of dreams and ghosts. 1897.....133 L23

In his preface Mr Lang says: "The chief purpose of this book is, if fortune helps, to entertain people interested in the kind of narratives here collected." He does not discuss the scientific theories involved, he only states the case and lets each reader draw his own conclusions. There are many instances, new and old, and the book is interesting, whether one believes in ghosts or not.

LELAND, Charles Godfrey.

Aradia; or, The gospel of the witches. 1899.....133 L57

While pursuing the study of Italian folklore, the author obtained from an Italian "sorceress" this gospel of a religion of which Diana is the goddess and her daughter Aradia the female Messiah. It sets forth how the latter was born, came down to earth, established witchcraft, and then returned to heaven. Various incantations and ceremonial forms are also included.

Gypsy sorcery and fortune telling. 1891q133 L57g

MACKAY, Charles.

Memoirs of extraordinary popular delusions and the madness of crowds. 2v. 1852.....133 M17

v.1. Mississippi scheme.—South-Sea bubble.—The tulipomania.—The alchymists.—Modern prophecies.—Fortune-telling.—The magnetisers.—Influence of politics and religion on the hair and beard.

v.2. The crusades.—The witch mania.—The slow poisoners.—Haunted houses.—Popular follies of great cities.—Popular admiration of great thieves.—Duels and ordeals.—Relics.

MASSEY, Gerald.

Concerning spiritualism133 M45

Contains also A tale of eternity, and other poems.

MATHER, Cotton.

The wonders of the invisible world; an account of the tryals of several witches lately executed in New-England; to which is added a farther account of the tryals of the New-England witches, by Increase Mather.

1862133 M46

MATHER, Increase.

Remarkable providences illustrative of the earlier days of American colonization; with introductory preface by

George Offor. 1890.....133 M469

A reprint of a collection of superstitious narratives showing the state of public opinion in the seventeenth century, and the implicit faith which then existed in the power of the invisible world to hold intercourse with man.

NEVIUS, John Livingston.

Demon possession and allied themes; an inductive study of phenomena of our own times. 1896.....133 N25

"Bibliographical index," p.439-459.

OWEN, Robert Dale.

The debatable land between this world and the next. 1872....133 O34

Footfalls on the boundary of another world. 1865.....r133 O34

PARISH, Edmund.

Hallucinations and illusions; a study of the fallacies of perception. 1897. (Contemporary science series.).....133 P23

ROBINSON, William E.

Spirit slate writing and kindred phenomena. 1898.....133 R55

"Owing to the fact that the author has for many years been engaged in the practice of the profession of magic, both as a prestidigitateur and designer of stage illusions for the late Alexander Herrmann, and has also been associated with Prof. Kellar, he feels that he is fitted to treat of clever tricks used by mediums." *Preface.*

SACHS, Edwin T.

Sleight of hand; a manual of legerdemain. 1900133 S12

SARGENT, Epes.

Scientific basis of spiritualism. 1891133 S24

SCOTT, Sir Walter.

Letters on demonology and witchcraft. 1874.....133 S43

SULLY, James.

Illusions; a psychological study. 1893. (International scientific series.)133 S95

WHITING, Lilian.

After her death; the story of a summer. 1897.....133 W64

A tribute to the memory of Kate Field.

133.5 Astrology

AMES, Mrs Eleanor Maria (Easterbrooks), (*pseud.* Eleanor Kirk).

Influence of the zodiac upon human life. 1894.....133.5 A51

Astrological. Details the characteristics of those born under the different signs of the zodiac.

BUTLER, Hiram Erastus.

Solar biology; a scientific method of delineating character, etc., from date of birth. 1899.....133.5 B97

LILLY, William.

Introduction to astrology; also a Grammar of astrology and tables for calculating nativities, by Zadkiel. 1898.....133.5 L71

SEPHARIAL, (*pseud.* of W. Gorn Old).

New manual of astrology. 1898133.5 S47

133.6 Palmistry

ALLEN, Edward Heron.

Manual of cheirosophy. 1894133.6 A42

BENHAM, William George.

Laws of scientific hand reading; a practical treatise on palmistry. 1901133.6 B43

CHEIRO, (*pseud.* of Leigh Warner).

Guide to the hand133.6 C41g

Language of the hand. 1897133.6 C41

GALTON, Francis.

Finger prints. 1892133.6 G15

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"Brilliant and incisive criticism of some widely prevalent views of Professor Royce and Mr. Bradley. Dr. Hodder poses as a philosophical skeptic, and is a valiant champion of the moment of experience, the 'specious present,' beyond which nothing is certain, either in metaphysics, logic, or ethics...In spite of reservation...[his] book may be recommended to all who have a taste for dialectical discussions and excellence of style, as one of the most stimulating and enjoyable that have appealed to the philosophic public in recent years." *Nation*, 1901.

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"Philosopher, statesman, and man of letters, whom Izaak Walton called 'the great secretary of nature and all learning.' To Bacon, the literature of philosophy is indebted for the impulse he gave to scientific inquiry by his powerful and eloquent exposition of its methods in his 'Novum Organum' and 'Advancement of Learning,' while literature in general owes acknowledgment to him for his popularization of the essay. While his scientific treatises created a revolution in the domain of philosophy, and, as Macaulay says, produced a vast influence on the opinions of mankind, it is 'in the essays alone that the mind of Bacon is brought into immediate contact with the minds of ordinary readers.' The essays are the observations and deductions of a great intellect occupied with the problem of human life, and actuated by the desire to disseminate prudential counsels in its direction and guidance. Their wisdom, their pithiness of style, are unapproached in English literature." *G. Mercer Adam*.

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- v.2. A dissertation upon parties.—Letters on the study and use of history.
 v.3. A letter occasioned by one of Archbishop Tillotson's sermons.—Concerning the nature, extent and reality of human knowledge.—Containing some reflections on the folly and presumption of philosophers.—Concerning authority in matters of religion.
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English statesman and philosopher (1678-1751).

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 breaks up the universe into two entirely distinct substances—the ma-
 terial world and an immaterial God, who is represented to be its crea-
 tor, sustainer, and ruler. Monism, on the contrary (likewise taken in
 its widest sense), recognizes one sole substance in the universe, which
 is at once 'God and nature;' body and spirit (or matter and energy)
 it holds to be inseparable. The extra-mundane God of dualism leads
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Other essays: The scepticism of believers.—Dreams and realities.—What is materialism?—Newman's theory of belief.—Poisonous opinions.—The religion of all sensible men.

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Struggle for immortality. 1890. 204 W21

Contents: What is a fact?—Is God good?—What does revelation reveal?—The struggle for immortality.—The Christianity of Christ.—The psychical opportunity.—The psychical wave.

WESTCOTT, Brooke Foss, bp.

Lessons from work. 1901 204 W56

Contents: The position and call of the English church.—Christian doctrine, the spirit and method of studying it.—The condition and the mode of revelation.—The intellectual preparation of candidates for holy orders.—The study of the Bible.—The lesson of biblical revision.—The revised version of the New testament.—Biblical criticism and social problems.—Fellowship with Christ the rule and the message of the Christian minister.—Prayer the support of foreign missions.—The double witness.—The prophetic call of laymen.—Our creed and life.—Temperance.—Life.—Organization of industry.—International concord.—Expenditure.—Our attitude towards war.—The empire.—Progress.

WISEMAN, Nicholas, cardinal.

Essays on various subjects. 3v. 1853.....204 W81

- v.1. Two letters on some parts of the controversy concerning the genuineness of 1 John v.7.—Catholic versions of Scripture.—The parables of the New testament.—The miracles of the New testament.—Letters to John Poynder upon his work entitled "Popery in alliance with heathenism."—Authority of the Holy See in South America.—A paper on ecclesiastical organization.—The fate of sacrilege.—On prayer and prayer-books.—On national holydays.—Essay on the minor rites and offices of the church.—Ancient and modern Catholicity.—The actions of the New testament.
- v.2. The Hampden controversy.—Tracts for the times.—Froude's "Remains."—The high church theory of dogmatical authority.—Anglican claims of apostolical succession.—The Catholic and Anglican churches.—The Anglican system.—Protestantism of the Anglican church.—Unreality of Anglican belief.—Position of the high church theory at the close of 1847.—The fourth of October.
- v.3. Papers on history, antiquities and art.—Pope Boniface VIII.—St. Elizabeth of Hungary.—Brief account of the council held at Constantinople, 1166.—On the writings of St. Ephrem.—Account of a recently discovered Christian inscription.—Remarks on Lady Morgan's statement regarding St. Peter's chair.—The Roman forum.—Christian art.—Spanish and English national art.—Superficial travelling.—Italian guides and tourists.—Religion in Italy.—Italian gesticulation.—Early Italian academies.—Sense v. science.

205 Periodicals

AMERICAN journal of theology; ed. by the divinity faculty of the University of Chicago; quarterly. v.1-date. 1897-

date r205 A51

AMERICAN quarterly observer, July 1833-Oct. 1834. 3v. in 2.

1833-34 r205 A512

In Jan. 1835, united with the Biblical repository.

ANDOVER review; a religious and theological monthly.

v.1-19. 1884-93.....r205 A55

ASSEMBLY herald; monthly. v.1-date. 1899-date.....r205 A84

BALTIMORE literary and religious magazine, monthly;

conducted by R. J. Breckinridge and A. B. Cross. 7v.

1835-41r205 B21

v.2, 4 missing.

Continued as "Spirit of the 19th century."

BIBLICAL repertory and Princeton review; quarterly. v.24-

27. 1852-55r205 B47

Running title reads Princeton review.

BIBLICAL repository; quarterly, Jan. 1831-Oct. 1850. 30v.

1831-50 r205 B4732

———General index, v.1-21, 1831-1844. 1845.

v.5-8 title page reads Biblical repository and quarterly observer.

v.9-24 title page reads American biblical repository.

v.25-30 title page reads Biblical repository and classical review.

No more published.

Elaborate original and translated articles for the theologian and biblical student.

BIBLICAL world; monthly; new ser. v.1-date. 1893-date..r205 B4733

Continuation of the Old and New testament student.

BIBLIOTHECA sacra, and theological review; quarterly.

v.1-date. 1844-dater205 B473

———Index to v.1-13. 1857.

Changes in the title of this magazine are described in the Index volume.

- CALVINISTIC monitor; monthly, July-Aug., Dec. 1839. v.1, no.
1, 2, 6. 1839qr205 W56
Bound with Western Presbyterian herald.
- CHRISTIAN advocate; monthly. 12v 1823-34.....r205 C461
Continuation of the Presbyterian magazine.
No more published.
- CHRISTIAN advocate; weekly. v.63-69. 1888-93qr205 C4612
- CHRISTIAN examiner and theological review; bi-monthly.
v.1-85, in 36. 1824-68r205 C459
v.6-35 title reads Christian examiner and general review.
v.36-62 title reads Christian examiner and religious miscellany.
v.63-85 title reads Christian examiner.
- CHRISTIAN observer, conducted by members of the Estab-
lished church; monthly. 77v. 1802-1877.....r205 C45
No more published.
v.75-77 title reads Christian observer and advocate.
v.21, which was to be an index volume, was never issued.
- CHRISTIAN remembrancer; monthly and quarterly. 56v. 1841-
68r205 C4594
No more published.
- CHRISTIAN spectator; monthly and quarterly. 20v. 1819-
38r205 C4593
v.11-20 title reads Quarterly Christian spectator.
No more published. In 1839 united with the American biblical repository.
- CHURCH and the world; quarterly. v.1-3. 1872-74.....r205 C468
- CHURCH at home and abroad; published monthly by order
of the General assembly of the Presbyterian church.
24v. 1887-98.....r205 C46
No more published.
- CHURCH quarterly review; Oct. 1875-date. v.1-date. 1876-
dater205 C4682
- CRITICAL review of theological & philosophical literature;
quarterly. v.1-date. 1891-dater205 C88
- ENGLISH review; or, Quarterly journal of ecclesiastical and
general literature. 19v. in 18. 1844-53.....r205 E64
No more published, v.19 consists of one number only.
- GOOD words; weekly and monthly. v.1-date. 1860-date....r205 G62
- JOURNAL of sacred literature; ed. by John Kitto and others;
quarterly. 40v. 1848-68r205 J46
v.1-11 were edited by John Kitto.
v.15-38 title reads Journal of sacred literature and biblical record.
No more published.
- JOURNAL of the Society of biblical literature and exegesis;
semi-annually, June, 1881-date. v.1-date. 1882-date....r205 J466
v.9-date title reads Journal of biblical literature.
- LITERARY and theological review; quarterly. 6v. 1834-39....r205 L74
No more published.
- MERCERSBURG review; quarterly. 43v. 1849-96r205 M63
v.1-4 published bi-monthly.
v.18 contains an index to the first 18 volumes.
v.26-43 title reads Reformed quarterly review.
- METHODIST magazine; monthly, 1818-1828, 1834, 1839. v.1-
11, 16, 21. 1818-39r205 M64m
From 1829 to 1840 title reads Methodist magazine and quarterly review,
and the review was published quarterly.
Continued as the Methodist quarterly review.
Called in Poole's index the American Methodist magazine.

- METHODIST quarterly review. 3d ser. v.1-date. 1841-dater205 M64
Continuation of the Methodist magazine.
Beginning with 5th ser. v.1 title reads Methodist review, and the issue is bi-monthly.
- MODERN review; quarterly. 5v. 1880-84.r205 M76
No more published.
- MONTHLY religious magazine; Jan. 1844-Feb. 1874. 51v. in 38. 1844-74r205 M86
v.15-24 title page reads Monthly religious magazine and independent journal.
v.43-44 title page reads Monthly review and religious magazine.
v.45-51 title page reads Religious magazine and monthly review.
Continued as the Unitarian review and religious magazine.
- NEW Princeton review; bi-monthly. 6v. 1886-88.r205 N261
A continuation of the Princeton review.
No more published.
- NEW world; a quarterly review of religion, ethics and theology. 9v. 1892-1900r205 N26
No more published.
- NEW YORK observer; weekly, Aug. 4, 1832-Dec. 28, 1865. v.10, no.31-v.43, no.52, in 18. 1832-65.qr205 N2612
- OPEN church; quarterly, Jan. 1897-Sept. 1899. 3v. 1897-99.r205 O26
No more published.
- PITTSBURG recorder; weekly, Jan. 25, 1822-June 13, 1823. v.1-2, no.21, 1822-23r205 P67
- PRESBYTERIAN; weekly, Feb. 16, 1831-Dec. 25, 1834. v.1-4, in 3. 1831-34qr205 P9223
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- PRESBYTERIAN magazine; monthly. 2v. 1821-22.r205 P922
Continued as the Christian advocate.
- PRESBYTERIAN quarterly review, June, 1852-March, 1857, July, 1858-Oct. 1866, Jan. 1868-Oct. 1871. v.1-5, 7-15, 17-20. 1853-71r205 P9222
v.12-17 title reads American Presbyterian and theological review; v.18-20, American Presbyterian review; v.1-20 is so called in Poole's index.
Continued as the Presbyterian quarterly.
- PRESBYTERIAN review; quarterly. 10v. 1880-88.r205 P92
Continued as the Presbyterian and reformed review.
- PRINCETON review; new ser. bi-monthly. 14v. in 10. 1878-84r205 P95
A continuation of the Presbyterian quarterly.
Continued as the New Princeton review.
- QUARTERLY register and journal of the American education society. 15v. 1829-43r205 Q19
v.4-15 title page reads American quarterly register.
No more published.
- QUARTERLY review of the Evangelical Lutheran church. v.1-date. 1871-dater205 Q192
Title page of v.8-date reads Lutheran quarterly.
Continuation of the Evangelical review.
- "SALVATION"; a new evangelical monthly. v.1. 1899.r205 S18
- SPIRIT of the 19th century; ed. by R. J. Breckinridge; monthly. 2v. 1842-43.r205 S75
No more published.
Continuation of the Baltimore literary and religious magazine.

- SPIRIT** of the Pilgrims; a monthly magazine. 6v. 1828-33. r205 S759
No more published.
- SUNDAY** magazine; monthly. v.1-date. 1865-date.qr205 S95
- UNITARIAN** review and religious magazine; monthly, Mar. 1874-
Dec. 1891. 36v. 1874-91r205 U25
v.27-36 title reads Unitarian review.
A continuation of the Monthly religious magazine.
No more published.
- WEEKLY** recorder; a newspaper conveying intelligence, under
the heads of theology, literature and national affairs, July
5, 1814-June 28, 1815. v.1. 1814-15qr205 W42
- WESTERN** Presbyterian herald; weekly, Sept. 21, 1837-Nov. 7,
1839. v.6, no.45-v.8, no.50, in 1. 1837-39qr205 W56
v.8 title reads Protestant and herald.
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45-46, 52; v.8, no.1, 3-8 wanting.

206 Societies. 207 Seminaries

- BARROWS**, John Henry, *ed.*
World's parliament of religions. 2v. 1893.206 B26
History and proceedings of the parliament of religions held at the
World's Columbian exposition in 1893, with the papers written by the
various representatives.
- GREEN**, Samuel Gosnell.
Story of the religious tract society for 100 years. 1899.206 G83
- MILDMAY** CONFERENCE.
Report of addresses, 1896. 1896206 M68
- GENERAL THEOLOGICAL SEMINARY**, New York.
Dedication of Hoffman and Eigenbrodt halls, May 30, 1900,
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- PENNSYLVANIA BAPTIST EDUCATION SOCIETY.**
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v.52-59, 61 missing.
- PRINCETON UNIVERSITY**—Theological seminary.
General catalogue. 1829r207 P95
- WESTERN THEOLOGICAL SEMINARY**, Allegheny, Pa.
Annual catalogue, 1845/46, 1860/61, 1901/02. 3v. in 2. 1846-
1902r207 W56
Volumes for 1845/46, 1860/61 are bound with pamphlets marked
r974.88 C69.

208 Collected works

- COUPLAND**, William Chatterton, *ed.*
Thoughts and aspirations of the ages; selections from the
religious writings of the world. 1895.208 C83
- DANA**, John Monroe, *comp.*
Wider view; a search for truth. 1899.208 D19
Selections in prose and verse on various religious subjects.
- DEWEY**, Orville.
Works. 1896208 D51
Biographical sketch of Dewey, by M. E. Dewey, p.9-12.

DICK, Thomas.

Complete works. 9v. in 3. 1848-50r208 D54

- v.1-3. On the improvement of society by the diffusion of knowledge.—The philosophy of a future state.—The philosophy of religion; or, An illustration of the moral laws of the universe.
- v.4-6. The Christian philosopher; or, The connexion of science and philosophy with religion.—On the mental illumination and moral improvement of mankind.—An essay on the sin and the evils of covetousness, and the happy effects which would flow from a spirit of Christian beneficence.
- v.7-9. Celestial scenery; or, The wonders of the planetary system displayed, illustrating the perfections of Deity and a plurality of worlds.—The sidereal heavens and other subjects connected with astronomy.—The practical astronomer.

IRVING, Edward.

Collected writings; ed. by Gavin Carlyle. 5v. 1864-65.....208 I28

- v.1. On the word of God.—The parable of the sower.—Missionaries after the Apostolical school.—Ordination charge.—Historical view of the Church of Scotland before the reformation.—Notes on the standards of the Church of Scotland.
- v.2. John the Baptist.—The temptation.—Homilies of baptism.—Homilies on the Lord's supper.
- v.3. On prayer. — On praise. — On family and social religion. — Discourses delivered on public occasions.
- v.4. Miscellaneous discourses.
- v.5. The doctrine of the incarnation, opened.—The church.—On the gifts of the Holy Ghost.

PALEY, William.

Works. 6v. 1830208 P18

- v.1. Memoirs of Paley, by G. W. Meadley.—Natural theology.
- v.2. A view of the evidences of Christianity.—Tracts.
- v.3. Principles of moral and political philosophy.
- v.4. Horæ Paulinæ. — The young Christian instructed. — Clergyman's companion.
- v.5. Sermons on public occasions. — Sermons on several subjects. — Tracts.
- v.6. Sermons on various subjects.

TAYLOR, Jeremy.

Whole works; with a life of the author and a critical examination of his writings by Reginald Heber. 10v.

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- v.1. Clerus Domini. — Office ministerial. — Discourse of friendship. — Rules and advices to the clergy.—Life.—Indexes.
- v.2. Life of Christ.
- v.3. Rule and exercises of holy living and dying.
- v.4. Sermons.
- v.5. Episcopacy.—Apology for set forms.—Reverence due to the altar. —Liberty of prophesying.—Confirmation.
- v.6. Real presence of Christ in the sacrament.—Dissuasive from popery.
- v.7. Unum necessarium. — Deus justificatus. — Letters to Warner and Jeanes.—Golden grove.—Hymns.
- v.8. Worthy communicant. — Supplement of sermons. — Collection of offices.
- v.9-10. Ductor dubitantium.

209 History of religion

ADENEY, Walter Frederic.

A century's progress in religious life and thought. 1901...209 A23

Contents: Introduction.—Leading minds of the century.—The Oxford movement. — Religion and science. — Biblical criticism. — The immanence of God.—The decline of Calvinism.—Changed views of redemption.—The future.—Social questions.—Preachers and preaching.—Literature, art and recreation.

BRINTON, Daniel Garrison.

Religions of primitive peoples. 1897. (American lectures on the history of religions.)209 B75

CAIRD, Edward.

Evolution of religion; the Gifford lectures delivered before the University of St. Andrews in sessions 1890-91 and 1891-92. 2v. 1899209 C12

The first lecture contains a general statement of the problem, and the next six are devoted to an explanation of the principles upon which the author bases his view of religion and its history. The rest of the book is confined almost entirely to the development of the Jewish and the Christian religions.

CLARKE, James Freeman.

Events and epochs in religious history. 1894.....209 C53

Contents: The catacombs.—The Buddhist monks of central Asia.—The Christian monks and monastic life.—Augustine, Anselm, Bernard, and their times.—Jeanne d'Arc.—Savonarola and the renaissance.—Luther and the reformation.—Loyola and the Jesuits.—The mystics in all religions.—George Fox and the Quakers.—The Huguenots.—John Wesley and his times.

DORCHESTER, Daniel.

Problem of religious progress. 1895209 D73

EDKINS, Joseph.

The early spread of religious ideas especially in the far East. 1893. (By-paths of Bible knowledge.).....209 E28

Contents: The prae-Mosaic origin of the book of Genesis.—Primaevial monotheism in China and Persia.—The philological history of the names for God.—How religious ideas spread in the ancient world.—Polytheism in China.—The moral ideas of the Chinese.—Early spread of the belief in a future state.

JEVONS, Frank Byron.

Introduction to the history of religion. 1896.....209 J31

Contents: The supernatural.—Sympathetic magic.—Life and death.—Taboo, its transmissibility.—Things taboo.—Taboo, morality and religion.—Totemism.—Survivals of totemism.—Animal sacrifice; the altar.—Animal sacrifice; the sacrificial meal.—Fetichism.—Family gods and guardian spirits.—Ancestor-worship.—Tree and plant worship.—Nature-worship.—Syncretism and polytheism.—Mythology.—Priesthood.—The next life.—The transmigration of souls.—Mysteries.—Eleusinian mysteries.—Monotheism.—The evolution of belief.

"The work is intended primarily for students who require an introduction to the history of religion, but will also, it is hoped, prove interesting to students of folk-lore and anthropology, and to the wider circle of general readers." *Preface.*

LANG, Andrew.

Making of religion. 1898209 L23

Partial contents: Anthropology and religion.—Crystal visions, savage and civilised.—Anthropology and hallucinations.—Demoniacal possession.—Fetichism and spiritualism.—High gods of low races.—Theories of Jehovah.

MACKINTOSH, William.

Natural history of the Christian religion; a study of the doctrine of Jesus as developed from Judaism and converted into dogma. 1894.....209 M18

RELIGIOUS systems of the world. 1892.....209 R32

RÉVILLE, Albert.

Prolegomena of the history of religions. 1884.....209 R36

TAYLOR, Henry Osborn.

Ancient ideals; a study of intellectual and spiritual growth from early times to the establishment of Christianity.

- 2v. 1896209 T25
 v.1. Egypt, Chaldæa and China.—India.—The Buddha.—Iran.—Greek beginnings.—Homer.—Greek principles of life.—Greek art and poetry.—Greek philosophy.—Later Hellenism.—The genius of Rome.—The republic as influenced by Greece.
 v.2. The empire; the public hope.—The empire; the spiritual change.—The empire; philosophy and religious revival.—Israel; deliverance and consecration.—Israel's spiritual growth.—Messianic prophecy.—The Psalter.—Wisdom and the law; later Judaism.—Christianity; the synoptic presentation.—The gospel of John.—Apostolic interpretation.—The Roman world and Christianity.

UNIVERSITY ASSOCIATION.

Universal religion: a course of lessons, historical and scientific, on the various faiths of the world, by a corps of specialists in Asia, Europe and America; ed. by Edmund Buckley. 1897qr209 U25
 Contains numerous bibliographies.
 Being v.3 of "Progress."

210 Natural theology

ARGYLL, George Douglas Campbell, duke of.

- The philosophy of belief; or, Law in Christian theology.
 1896210 A69p
Contents: Intuitive theology.—The theology of the Hebrews.—Christian theology.—Christian belief.
 Reign of law. 1868210 A69
The same. 1868r210 A69

BOEDDER, Bernard.

Natural theology. 1891. (Manuals of Catholic philosophy.)..210 B58
 CAIRD, John.

- Fundamental ideas of Christianity; the Gifford lectures.
 2v. 1899210 C12
 Memoir of the author, by Edward Caird, v.1, p.9-141.
 v.1. Natural and revealed religion.—Faith and reason.—The Christian idea of God.—The relation of God to the world.—The origin and nature of evil; the Augustinian theory.
 v.2. The origin and nature of evil; the theory of negation or privation, the predominance of sense over spirit, the theory of free will.—The possibility of moral restoration.—The idea of the incarnation.—The idea of the atonement.—The kingdom of the spirit.—The future life.

FISHER, George Park.

Manual of natural theology. 1893.....210 F53

FISKE, John.

Through nature to God. 1899.....210 F54

Contents: The mystery of evil.—The cosmic roots of love and self-sacrifice.—The everlasting reality of religion.

This little book is the natural sequel to two previous works of Mr Fiske—"The idea of God, as affected by modern knowledge," and "The destiny of man, viewed in the light of his origin." It seeks "to solve the tremendous mystery of evil so as to give man a fuller sense of his high calling and a firmer assurance of the infinite wisdom and benignity." It shows the range and power of love and self-sacrifice, and emphasizes the religious lesson which nature teaches.

The second part is, with slight changes, the Phi Beta Kappa oration delivered at Harvard university, June, 1895. Its original title was "Ethics in the cosmic process."

GUYAU, Marie Jean.

The non-religion of the future, a sociological study. 1897..210 G99

Contents: Religious physics.—Religious metaphysics.—Religious morals.

—Dogmatic faith.—Symbolic and moral faith.—Dissolution of religious morality.—Religion and non-religion among the people.—Religion and non-religion and the child.—Religion and non-religion among women.—The effect of religion and non-religion on population and the future of the race.—Religious individualism.—Association; the permanent element of religions in social life.—Theism.—Pantheism.—Idealism, materialism, monism.

HUTCHINSON, Woods.

The gospel according to Darwin. 1898.....210 H97

LAING, Samuel.

Modern Zoroastrian. 1898.....210 L16

The author condenses many facts of the material and moral world, obtaining as a result a single general law of mutual antagonistic principles which he terms "the all pervading principle of polarity."

PALEY, William.

Natural theology; or, Evidences of the existence and attributes of the Deity. 1817.....r210 P18

The same. 1837.....r266 M76

Bound with Moffat's Missionary labours in southern Africa.

The same. 1830. (In his Works, v.1.).....208 P18 v.1

SEELEY, Sir John Robert.

Natural religion. 1886.....210 S45

TIELE, Cornelis Petrus.

Elements of the science of religion; being the Gifford lectures delivered before the University of Edinburgh in 1896 and 1898. 2v. 1897-99.....210 T45

v.1. Morphological. v.2. Ontological.

"Prof. Tiele is a strong believer in the doctrine that there are laws of development applicable to religion, and that they are special forms and conditions of laws which are applicable to the human mind in general. The whole object of his volumes, as he expressly states, is to show that between pure science and true religion nothing but perfect and abiding harmony can prevail." *Spectator*, 1899.

WALLACE, William.

Lectures and essays on natural theology and ethics; ed. by

Edward Caird. 1898.....210 W17

Biography of Wallace, by Edward Caird, pref. p.7-40.

"Gifford lectures delivered in the University of Glasgow in 1894 and 1895," p.1-210.

211 Deism and atheism

BONHAM, John M.

Secularism; its progress and its morals. 1894.....211 B62

BOWNE, Borden Parker.

Philosophy of theism. 1887.....211 B79

FISKE, John.

Idea of God as affected by modern knowledge. 1895.....211 F54

"Earnest contention that evolution culminating in man is absolutely inexplicable except as the expression of divine purpose...A feature of the discussion...is the justification of an anthropomorphic conception of God." *Andover review*, 1886.

FRASER, Alexander Campbell.

Philosophy of theism; being the Gifford lectures, 1st-2d ser.

2v. 1895-96.....211 F88

The same. 1899.....211 F88p

"The work on its first appearance (1895-96) made a profound impression as a masterly...vindication of the reasonableness of natural religion, and the few years that have passed since then have not suf-

ficiently altered the aspects of thought in the philosophical world, to make any reason why its arguments and its eloquence should be less cogent or less welcome to-day (1899)." *Spectator*, 1899.

HARRIS, Samuel.

Philosophical basis of theism. 1899.....211 H29

HOLYOAKE, George Jacob.

English secularism; a confession of belief. 1896.....211 H75

INGERSOLL, Robert Green.

Works. 12v. 1900f211 I24

- v.1. The gods.—Humboldt.—Thomas Paine.—Individuality.—Heretics and heresies.—The ghosts.—The liberty of man, woman and child.—About farming in Illinois.—What must we do to be saved?
- v.2. Some mistakes of Moses.—Some reasons why.—Orthodoxy.—Myth and miracle.
- v.3. Shakespeare.—Robert Burns.—Abraham Lincoln.—Voltaire.—Liberty in literature.—The great infidels.—Which way?—About the Holy Bible.
- v.4. Why I am an agnostic.—The truth.—How to reform mankind.—A Thanksgiving sermon.—A lay sermon.—The foundations of faith.—Superstition.—The devil.—Progress.—What is religion?
- v.5. Six interviews on Talmage.—The Talmagian catechism.—A vindication of Thomas Paine.
- v.6. The Christian religion.—The Field-Ingersoll discussion.—Col. Ingersoll on Christianity.—Rome or reason?—Is divorce wrong?—Divorce.—Reply to Dr Lyman Abbott.—Reply to Archdeacon Farrar.—Is corporal punishment degrading?
- v.7. My reviewers reviewed.—My Chicago Bible class.—To the Indianapolis clergy.—The Brooklyn divines.—The limitations of toleration.—A Christmas sermon.—Suicide of Judge Normile.—Is suicide a sin?—Is avarice triumphant?—A reply to the Cincinnati gazette and Catholic telegraph.—An interview on Chief Justice Comegys.—Reply to Drs Thomas and Lorimer.—Reply to Rev. John Hall and Warner Van Norden.—Reply to the Rev. Dr Plumb.—Reply to the New York clergy on superstition.
- v.8. Interviews.
- v.9. An address to the colored people.—Indianapolis speech.—Speech nominating Blaine.—Centennial oration.—Bangor speech.—Cooper union speech, New York.—Indianapolis speech.—Chicago speech.—Eight to seven address.—Hard times and the way out.—Suffrage address.—Wall street speech.—Brooklyn speech.—Address to the 86th Illinois regiment.—Decoration day address.—Decoration day oration.—Ratification speech.—Reunion address.—The Chicago and New York gold speech.
- v.10. Address to the jury in the Munn trial.—Closing address to the jury in the first Star route trial.—Opening address to the jury in the second Star route trial.—Closing address to the jury in the second Star route trial.—Address to the jury in the Davis will case.—Argument before the vice-chancellor in the Russell case.
- v.11. Civil rights.—Trial of C. B. Reynolds for blasphemy, address to the jury.—God in the constitution.—A reply to Bishop Spalding.—Crimes against criminals.—A wooden god.—Some interrogation points.—Art and morality.—The divided household of faith.—Why am I an agnostic?—Huxley and agnosticism.—Ernest Renan.—Tolstoy and "The kreutzer sonata."—Thomas Paine.—The three philanthropists.—Should the Chinese be excluded?—A word about education.—What I want for Christmas.—Fool friends.—Inspiration.—The truth of history.—How to edit a liberal paper.—Secularism.—Criticism of "Robert Elsmere," "John Ward, preacher," and "An African farm."—The libel laws.—Rev. Dr Newton's sermon on a new religion.—An essay on Christmas.—Has freethought a constructive side?—The improved man.—Eight hours must come.—The Jews.—Crumbling creeds.—Our schools.—Vivisection.—The census enumerator's official catechism.—The agnostic Christmas.—Spirituality.—Sumter's gun.—What infidels have done.—Cruelty in the Elmira reformatory.—Law's delay.—Bigotry of colleges.—A young man's chances to-day.—Science and sentiment.—"Sowing and reaping."—Should infidels send their children to Sunday school?—What would you substitute for the Bible as a moral guide?—Governor Rollins' fast-day proclamation.—A look backward and a prophecy.—

Political morality.—A few reasons for doubting the inspiration of the Bible.

v.12. Tributes and miscellany.

v.12 contains full index.

IVERACH, James.

Theism in the light of present science and philosophy.

1900211 I33

LECKY, William Edward Hartpole.

History of the rise and influence of the spirit of rationalism

in Europe. 2v. 1893.....211 L48

"The author defines his purpose as an attempt to trace that spirit which 'leads men on all occasions to subordinate dogmatic theology to the dictates of reason and of conscience, and, as a necessary consequence, greatly to restrict its influence upon life'. . . The author traces the declining sense of the miraculous; the aesthetic, scientific, and moral developments of rationalism; the spirit of persecution; the secularization of politics; and the industrial history of rationalism." C. K. Adams.

MELLONE, Sydney Herbert.

Leaders of religious thought in the nineteenth century. 1902...211 M59

Contents: Light on the way.—John Henry Newman.—Newman's "Grammar of assent."—James Martineau.—What is religious experience?—

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MERRILL, William Pierson.

Faith and sight; essays on the relation of agnosticism to

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OWEN, John.

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v.2. Two-fold truth.—Relation of Christianity to free-thought. — The skepticism of St. Augustine.—Semi-skepticism of the schoolmen: Erigena; Abelard; Aquinas. — William of Ockam. — Raymund of Sabrieude.

The plan here adopted of discussions in the form of dialogues interspersed with essays, enables the author to introduce the many differing views, to which he is inclined by his comprehensiveness and his independence of thought.

PAINE, Thomas.

Age of reason; an investigation of true and fabulous the-

ology; ed. by M. D. Conway. 1899.....211 P16

"Paine's confession of faith is simple. He was an ardent Deist believing in a God who created the world, and who is known to mankind through the world which he created. Nature was Paine's Bible, and science its only interpreter...Surely these were not startling precepts. At the end of the eighteenth century, Deism had long been known both in France and England...Paine's language was not shaped for conciliation. He spoke with the brutal freedom of a reformer...He wrote in clear, strong English which the people could understand; and he wrote as one of them...Here was his originality and here his power...The shriek which went up when *The Age of Reason* was published has echoed and re-echoed unto this day. Its cause was partly horror, partly ignorance, but chiefly fear." E. Sedgwick.

PEARSON, Karl.

Ethic of freethought. 1887.....211 P35

Contents: The ethic of freethought.—The prostitution of science.—Mat-

ter and soul.—The ethic of renunciation.—The enthusiasm of the market-place and of the study.—Maimonides and Spinoza.—Meister Eckehart the Mystic.—Humanism in Germany.—Note on Jacob Wimpfeling.—The influence of Martin Luther on the social and intellectual welfare of Germany.—The kingdom of God in Münster.—The moral basis of socialism.—Socialism in theory and practice.—The woman's question.—Sketch of the relations of sex in Germany.—Socialism and sex.

ROBERTSON, John Mackinnon.

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Christian rationalism; essays on matters in debate between faith and unbelief. 1898.....211 R97

Contents: On free thought.—On reason and faith.—On inspiration and infallibility.—On the racking doubt.—On existing dissensions between science and religion.—An historic foothold for faith.

SAUNDERS, Thomas Bailey.

Quest of faith; notes on the current philosophy of religion.

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SCHURMAN, Jacob Gould.

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"Full of thought, provocative of thought, clear in style, and pertinent to present day intellectual and spiritual needs." *Outlook*.

SETH, Andrew.

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WARD, James, b. 1843.

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Modern priestess of Isis; (Mme Blavatsky). 1895.....212 S68

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BASCOM, John.

Evolution and religion; or, Faith as a part of a complete
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"Object...is to raise the question: If we accept the theory of evolution
as true in science, how should it modify the thought and action of a
man who wishes to do his best in this world?" *Preface.*

LE CONTE, Joseph.

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The light of day; religious discussions and criticisms from
the naturalist's point of view. 1900.....215 B94
"My polemic, so far as it is such, will be found, I hope, aimed more
at theology than at religion." *Preface.*

CECIL, Hugh Mortimer.

Pseudo-philosophy at the end of the 19th century. v.1.
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Mr Balfour's Foundations of belief.

No more published.

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lucid and accomplished writer." *Academy*, 1897.

DALLINGER, William Henry.

The Creator and what we may know of the method of crea-
tion. 1887. (Fernley lecture, 1887.).....215 D16

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Natural law in the spiritual world. 1897.....215 D84

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Science and Hebrew tradition. 1894.....215 H98

Contents: On the method of Zadig.—Rise and progress of palæontology.—Lectures on evolution.—The interpreters of Genesis and the interpreters of nature.—Mr Gladstone and Genesis.—The lights of the church and the light of science.—Hasisadra's adventure.—The evolution of theology.

KINSLEY, William W.

Old faiths and new faiths. 1896.....215 K27

Contents: Science and prayer.—Science and Christ.—Science and the life beyond.
"Science and prayer" has been published separately in the Chautauqua reading series.

LAING, Samuel.

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Religion and science. 1874.....215 L49

MORRIS, Herbert William.

Present conflict of science with religion; or, Modern scepticism met on its own ground. 1875.....r215 M91

PRESSENSÉ, Edmond de.

Study of origins; or, The problems of knowledge, of being and of duty. 1887.....215 P92

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ROMANES, George John.

Thoughts on religion; ed. by Charles Gore. 1899.....215 R65

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The two essays of Part I were written some time before 1889 but were not published before the author's death (1894). The "Notes" were among his unfinished papers. Show a tendency from a position of unbelief to one of belief in the Christian revelation.

SHALER, Nathaniel Southgate.

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Scientist's survey of latest results in science; candid and hopeful, pointing toward ultimate harmony between religion and science.

SHIELDS, Charles Woodruff.

Religion and science in their relation to philosophy. 1875....r215 S55

WHITE, Andrew Dickson.

History of the warfare of science with theology in Christen-

- dom. 2v. 1896.....215 W63h
The same. 2v. 1896.....215 W63h
 In his preface the author emphasizes the point that in his opinion the struggle is between science and *theology*, not between science and religion.
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 Warfare of science. 1893.....215 W63

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- Where is my dog? or, Is man alone immortal? 1892.....218 A21

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- Critical history of the doctrine of a future life in Israel, in Judaism and in Christianity; or, Hebrew, Jewish and Christian eschatology from pre-prophetic times till the close of the New testament canon; the Jowett lectures for 1898-99. 1899218 C37
 Contains several bibliographies.

FISKE, John.

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- Life everlasting. 1901218 F54l

The Ingersoll lecture on the immortality of man, Dec. 19, 1900.

The argument is on the lines of evolution, inferring from what man has already become that the logical next step in his progress is the attainment of the life everlasting.

HUDSON, Thomson Jay.

- Scientific demonstration of the future life. 1895.....218 H88

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- Human immortality; two supposed objections to the doctrine. 1898218 J16

McCONNELL, Samuel D.

- Evolution of immortality. 1901218 M13

ROYCE, Josiah.

- Conception of immortality. 1900. (Ingersoll lecture, 1899.)..218 R81

SAVAGE, Minot Judson.

- Life beyond death; a review of the world's beliefs on the subject, leading to the question as to whether it can be demonstrated as a fact; with an appendix containing some hints as to personal experiences and opinions. 1899218 S26

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STEWART, Balfour, & Tait, P. G.

Unseen universe; or, Physical speculation on a future state. 1894218 S84

WHEELER, Benjamin Ide.

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v.1-2. Altes testament. v.3. Neues testament.

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Biblia; oder, Die ganze Heilige schrift; verdeutscht von Martino Luthero. 1683.....r220.5 B47bi

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- Biblia sacra vulgatae editionis, Sixti V jussu recogn. et Clement VIII auctoritate edita, accedunt perpetui G. S. Menochii commentarii. 8v. 1755.....r220.4 B47
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- Sunday-school teacher's edition.
- Holy Bible, containing the Old and New testaments with the apocryphal books, in the earliest English versions made from the Latin vulgate by John Wycliffe and his followers; ed. by Josiah Forshall and Sir Frederic Madden. 4v. 1850qr220.4 B47w
- List of manuscripts, v.1, p.39-64.
- Holy Bible translated from the Latin vulgate; the Old testament first published by the English college at Douay, 1609, and the New testament first published by the English college at Rheims, 1582. 1849.....220.4 H75
- Holy Bible, tr. out of the original tongues; being the version set forth in 1611 compared with the most ancient authorities and revised, 1881-1885; newly ed. by the American revision committee, 1901. 1901r220.5 B47ho
- The American revision committee have incorporated into the text the changes they preferred in the revision of 1885, which were rejected by the English committee, and have made many other changes in that version with the hope of adapting it for more general use.
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- La santa Biblia, que contiene el Antiguo y el Nuevo testamento; version de Cipriano de Valera. 1878.....qr220.5 B47s
- Scriptures, Hebrew and Christian: arranged and edited as an introduction to the study of the Bible by E. T. Bartlett and J. P. Peters. 3v. 1886-94.....220.5 B47sc
- v.1. Hebrew story, from creation to the exile.
- v.2. Hebrew literature.
- v.3. Christian scriptures.

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BALDWIN, James.

Old stories of the East. 1896j220 B19

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The Bible story retold for young people. 1898.....j220 B43

BIBLE stories for young people. 1894.....j220 B47

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FOSTER, Charles.

Story of the Bible told in simple language. 1877.....j220 F81

FRAZER, James George, *comp.*

Passages of the Bible chosen for their literary beauty and interest. 1895.....220 F89

MEYER, Johann Friedrich von.

Bibeldeutungen. 1812r220 M65

PEAKE, Arthur Samuel

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TRUMBULL, Henry Clay, *and others.*

Hints on Bible study. 1898.....220 T77

BRIGGS, Charles Augustus.

The Bible, the church and the reason. 1892.....220.I B74

List of the chief modern authorities who hold the modern critical views, p.236-247.

Biblical study; its principles, methods and history. 1884..220.I B74b

Contents: The advantages of biblical study.—Exegetical theology.—The languages of the Bible.—The Bible and criticism.—The canon of scripture.—The text of the Bible.—The higher criticism.—Literary study of the Bible.—Hebrew poetry.—The interpretation of scripture.—Biblical theology.—The Scriptures as a means of grace.

Catalogue of books of reference, p.429-488.

General introduction to the study of Holy scripture; the principles, methods, history and results of its several departments and of the whole. 1899.....220.I B74g

CHADWICK, John White.

Bible of to-day. 1891220.I C34

CLARIDGE, Richard.

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FARRAR, Frederic William, dean, *and others.*

The Bible and the child. 1896.....220.I F25

GLADDEN, Washington.

Who wrote the Bible? 1898220.I G45

Gives in compact and popular form the principal facts on which scholars now generally agree concerning the literary history of the Bible.

LADD, George Trumbull.

What is the Bible? an inquiry into the origin and nature of the Old and New testaments in the light of modern biblical study. 1894220.I L13

LIAS, John James.

Principles of biblical criticism. 1893.....220.I L68

RISHELL, Charles Wesley.

The higher criticism; an outline of modern biblical study.

1896220.1 R49

Written to furnish a concise answer to questions frequently asked concerning the higher criticism. Its province is not therefore to discuss and weigh, but to report the facts. Nevertheless, the careful reader will find the principles stated upon which the opponents of the critics proceed in their refutations." *Preface.*

SANDAY, William.

Inspiration; lectures on the history and origin of the doctrine

of biblical inspiration. 1896. (Bampton lectures.).....220.1 S21

SAVAGE, Minot Judson.

Beliefs about the Bible. 1883.....220.1 S26

WILLIAMS, M. B.

Among many witnesses; a book for Bible students.

1891220.1 W74

ZENOS, Andrew Constantinides.

Elements of the higher criticism. 1895.....220.1 Z51

220.2 Concordances

CRUDEN, Alexander.

Complete concordance to the Old and New testaments.

1870.qr220.2 C89

STRONG, James, *comp.*

Exhaustive concordance of the Bible, showing every word of the text of the common English version, together with a comparative concordance of the authorised and revised versions; also brief dictionaries of the Hebrew and Greek words of the original, with references to the English words.

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YOUNG, Robert, 1822-1888, *comp.*

Analytical concordance to the Bible. 1893.....qr220.2 Y39

220.3 Dictionaries

BROWN, John, of Haddington, *comp.*

Dictionary of the Bible. 2v. 1811.....r220.3 B78

DAVIS, John D. *comp.*

Dictionary of the Bible. 1898.....r220.3 D31

ENCYCLOPÆDIA biblica; a critical dictionary of the Bible;

ed. by T. K. Cheyne and J. S. Black. v.1-3. 1899-

1902qr220.3 E62

HASTINGS, James, & Selbie, J. A. *ed.*

Dictionary of the Bible, dealing with its language, litera-

ture and contents. v.1-4. 1898-1902.....qr220.3 H34

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in many respects should in other respects fall so far short of the ideal of a modern Bible Dictionary." *Nation*, 1898.

SMITH, Sir William, *comp.*

Dictionary of the Bible. 4v. 1890-94.....r220.3 S66

WINER, Georg Benedict, *comp.*

Biblisches realwörterbuch, zum handgebrauch für studierende, candidaten, gymnasiallehrer und prediger. 2v.

1847-48 r220.3 W78

220.5 History of the Bible

BEARDSLEE, John Walter.

Bible among the nations; a study of the great translations.

1899 220.5 B34

BERGHAEUER, Johann Thomas Adalbert.

Bibliomacheia; das ist biblischer feld-zug und musterung

vieler jämmerlich-verfälschten Bibelen. 1746.....r220.5 B45

A satire on various Protestant translations of the Bible.

COPINGER, Walter Arthur.

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KENYON, Frederic George.

Our Bible and the ancient manuscripts; a history of the text and its translations. 1898.....220.5 K19

Bibliography, p.281-283.

RANYARD, Mrs Ellen.

The book and its story; a narrative for the young. 1855..r220.5 R19

A history of the Bible, containing many interesting details of its translation and circulation. Contains also a history of the British and foreign Bible society and the work it has accomplished.

SMYTH, John Paterson.

How we got our Bible. 1899220.5 S66

220.7 Commentaries

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Holy Bible with an explanatory and critical commentary by bishops and other clergy of the Anglican church; ed. by

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HENRY, Matthew.

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HURLBUT, Jesse Lyman, & Doherty, R.R.

Illustrative notes; a guide to the study of the international

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Select notes; a commentary on the international lessons, 1896-

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- v.1. Genesis.
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- v.5. Numbers.
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Author is (1900) professor of ecclesiastical history in Bangor theological seminary.

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- v. 7. Tracts Betzah, Succah, and Moed Katan.
- v. 8. Tracts Taanith, Megilla and Ebel Rabbathi or Semáhoth.
- v. 9. Tracts Aboth (Fathers of the synagogue), with Aboth of R. Nathan, Derech Eretz, Rabba and Zuta.
- v. 10. Tracts Baba Kama.
- v.11-12. Tract Baba Metzia.
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Author was Baron de Hirsch's representative in Russia, and has had other exceptional advantages in the study of his subject, and he gives many useful facts and suggestions. With the exception of the statistics relating to the Russian Jews these chapters are now first published.

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Biography of the author, p.1-112.

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Who wrote the book of Mormon? 1882.....q298 P31

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Spaulding's "Manuscript found." 1901r298 S38

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For further evidence see Samuel Williams' "Mormonism exposed," (r298 W74) and Robert Patterson's "Who wrote the Book of Mormon?" (q298 P31).

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"Wisely throwing aside any attempt to portray, as a whole, either the Egyptian Pantheon or the Egyptian creed, he has compressed into a volume of 300 pages, an account which leaves little to be desired, of the Egyptian religion as it affected the daily life of the people." *Academy*, 1897.

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v.2. The proposed abandonment of Ulster.—The union party suggested.—Mr Gladstone's home rule bill.—Causes and objects of the union.—Conservative policy in Ireland.—Policy of Lord Salisbury's first ministry.—The new conservative policy.—Resignation as chancellor of the exchequer.—Perils of the union party.—On his resignation.—The battle of the union.—The revolutionary party in Ireland.—National expenditure.—Economical ferocity.—Departmental extravagance and mismanagement.—Our navy and dockyards.—Economy in the public service.—Mr Gladstone's later policy.—The revolutionary party.—Fair trade.—The strength of the union party.—Home rule.—Cost and condition of the British army.—Local government in England and Ireland.—Reformed local government for Ireland.—The government of Ireland; public expenditure.—Political and social problems.—Expedition to Suakim.

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Contents: Speeches and letters accepting nominations.—Inaugural message, 1885, and speeches at Buffalo and Albany.—Civil service reform.—Taxation and revenue.—Centennial and anniversary celebrations.—To farmers' organizations.—To commercial and business associations.—To religious and charitable organizations.—Addresses before professional bodies.—On educational and patriotic questions.—To political clubs and organizations.—Speeches in political canvasses.—On some social and economic questions.—The character of Washington.—The coinage of silver.—On pensions, and to soldiers' organizations.—The Indian problem.—The public domain.—Some notable vetoes.—Characteristic messages.—Estimates of public men.—The maintenance of national honor.—Miscellaneous recommendations.—Thanksgiving proclamations.—Letters and speeches of a personal nature.

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A letter to Henry Ashworth.—How wars are got up in India, the origin of the Burmese war.—What next— and next?—The three panics, 1847-8, 1851-1852-1853, 1859-1860-1861.

First two, written in 1835-36, are the remarkable pamphlets which practically opened the career of the great English free trader, and contain the substance of his whole policy; "1793 and 1853" is a protest against the fear of a French invasion after the rise of the second empire; "What next—and next?" concerns the Crimean war; "Three panics" is on national defence.

COX, Samuel Sullivan.

Eight years in Congress. 1857-1865; memoir and speeches.

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Letters and speeches, with elucidations by Thomas Carlyle.

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The same. 4v. 1897.....r308 C89

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EVERETT, Edward.

Orations and speeches. 4v. 1892-95.....308 E95

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ington.—Conditions of a good school.—Beneficial influence of railroads.—The husbandman, mechanic and manufacturer.—Treatment of animals.—Effects of immigration.—Festival of the alumni of Harvard.—Education and civilization.—Dinner to Thomas Baring.—Progress of agriculture.—The death of Daniel Webster.—Colonization of Africa.—Abdul Rahaman.—Discovery of America.—Stability and progress.—The Pilgrim fathers.—New Hampshire.—Vice-president King.—Peter Chardon Brooks.—Dorchester in 1630, 1776 and 1855.—Boston school festival.—Launch of the Defender.—Abbott Lawrence.—Vegetable and mineral gold.—Daniel Webster as a man.—Reception at Philadelphia.—Mr Dowse's library.—The uses of astronomy.—George Peabody.—Obituary notice of Mr Dowse.—Memorial of the Franklin family.—Academical education.—The statue of Warren.—The importance of agriculture.—Charitable institutions and charity.—Dedication of the public library.—Dedication of Crawford's Washington.—Presentation of the cane of Washington.—Recollections of Turkey.—Washington abroad and at home.—The Fourth of July.

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FRANKLIN, Benjamin.

Complete works. 10v. 1887-88. r308 F87

FREYTAG, Gustav.

Politische aufsätze. 1897. 308 F94

HARRISON, Benjamin.

Speeches; a complete collection of his public addresses from Feb. 1888 to Feb. 1892; comp. by Charles Hedges.

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Biography of Harrison, p.7-8.

Views of an ex-president; Benjamin Harrison's addresses and writings on subjects of public interest since the close of his administration as president of the United

States; comp. by M. L. Harrison. 1901. 308 H29

Partial contents: The development of the national constitution.—The colonial charters.—Legal aspects of the controversy between the American colonies and Great Britain.—Early attempts at union and the union de facto.—The confederation.—The institution of state governments.—The status of annexed territory and of its free civilized inhabitants.—Musings on current topics.—Some hindrances to law reforms.—Illinois inheritance tax cases.—The obligations of wealth.—Military instruction in the schools and colleges.—At the Republican ratification meeting.—Compulsory dishonesty.

JAY, John, 1745-1829.

Correspondence and public papers; ed. by H. P. Johnston.

- 4v. 1890-93.....r308 J22
- v.1. 1763-1781.
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JEFFERSON, Thomas.

Correspondence, and miscellanies. 4v. 1829.....r308 J23c

Jeffersonian cyclopedia; a comprehensive collection of the views of Jefferson, classified and arranged in alphabetical order; ed. by J. P. Foley. 1900.....qr308 J23j

Writings; ed. by P. L. Ford. 10v. 1892-99.....r308 J23
v.10 contains an index.

LINCOLN, Abraham.

Complete works; ed. by J. G. Nicolay and John Hay. 2v.

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Speeches; comp. by L. E. Chittenden. 1895.....308 L71s

McKINLEY, William.

Speeches and addresses. 1893.....308 M184

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Miscellaneous works. 3v. 1846.....r308 M18

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v.3. *Vindiciæ Gallicæ*; a defence of the French revolution and its English admirers, against the accusations of Edmund Burke.—Speeches.

The same. 1854. (Modern British essayists.).....308 M18

MADISON, James.

Writings; comprising public papers and private correspondence; ed. by Gaillard Hunt. v.1-3. 1900-02.....r308 M23

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v.3. 1787. Journal of the Constitutional convention, v.1.

MILL, John Stuart.

Dissertations and discussions, political, philosophical and historical. 5v. 1874-82.....308 M68

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v.2. Coleridge.—M. de Tocqueville on Democracy in America.—Bailey on Berkeley's theory of vision.—Michelet's History of France.—The claims of labor.—Guizot's essays and lectures on history.—Early Grecian history and legend.

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- MOLTKE, Helmuth, graf von.**
Essays, speeches and memoirs; tr. by C. F. McClumpha and others. 2v. 1893.....308 M81
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Contents: The Bennington centennial.—Chief Justice Marshall.—United States Supreme court and the sovereignty of the people.—Law as a profession.—The relation of law to justice.—Law of the land.—International relations.—Farewell to England.—Samuel Prentiss.—Isaac F. Redfield.—The Monroe doctrine.—Equitable estoppel.—The constitution of the United States.—The choice of presidential electors.—Bryce's "American commonwealth."—The Bering sea controversy.—The age of words.
Memoir of the author, by J. W. Stewart, p.7-15.
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v.18. Correspondance.
- SEWARD, William Henry.**
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- v.2. Notes on New York.—State papers.—Official correspondence.—Pardon papers.
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SPARKS, Jared.

Reply to the strictures of Lord Mahon and others on the mode of editing the writings of Washington. 1852.....r308 S73

SUMNER, Charles.

Works. 15v. 1875-95.....r308 S95

TEMPLE, Sir William.

Works. 2v. 1720.....qr308 T28

v.1. Life and character of Sir William Temple.—Observations on the United Provinces of the Netherlands.—Miscellanea.—Memoirs.

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The second volume was edited by Dean Swift.

TILDEN, Samuel Jones.

Writings and speeches; ed. by John Bigelow. 2v. 1885.....308 T46

WASHINGTON, George.

Writings; ed. by W. C. Ford. 14v. 1889-93.....r308 W27

"'The father of his country' is to be found entire in these volumes, which cannot be read without increased admiration for Washington, and without a sense of obligation to his latest editor." *Nation*, 1893.

Writings selected from the original manuscripts, with a life

of the author by Jared Sparks. 12v. 1834-37.....r308 W27s

With newspaper clippings and ms. annotations by Judge Veech.

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WEBSTER, Daniel.

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Biographical memoir of the public life of Daniel Webster, by Edward Everett, v.1, p.13-160.

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AMERICAN STATISTICAL ASSOCIATION.

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—General index, v.1-15. 1854.

—General index, v.16-25. 1863.

—General index, v.26-35. 1874.

———General index, v.36-50. 1889.

These indexes are bound in two volumes.

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Balance-sheet of the world for ten years, 1870-1880. 1881...r310 M95b

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The same. 1899.....qr310 M95d

Industries and wealth of nations. 1896.....r310 M95i

Progress of the world in arts, agriculture, commerce, manufactures, instruction, railways and public wealth, since the beginning of the 19th century. 1880.....r310 M95p

RUGGLES, Samuel Bulkley.

Reports of S. B. Ruggles, official delegate from the United States to the International statistical congress at The Hague in 1869. 1871. (42d cong. 1st sess. Senate.

Ex. doc. no.7.).....r1466

SMITH, Richmond Mayo.

Science of statistics. v.1. 1895.....r310 S65

v.1. Statistics and sociology.

YOUNG, Edward, b. 1814, and others.

Report of Edward Young, William Barnes and Edwin M.

Snow, official delegates from the United States to the

8th session of the International statistical congress held

at St. Petersburg, Aug. 1872. 1874. (43d cong. 1st

sess. House. Ex. doc. 289.).....r1615

Contains accounts of the seven preceding congresses.

BONAR, James.

Malthus and his work. 1885.....312 B61

Presents Malthus's contributions to political economy, and traces his influence upon recent economic thought. Reviews his critics.

MALTHUS, Thomas Robert.

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"Although more or less anticipated, like most discoverers, Malthus gave a position to the new doctrine by his systematic exposition, which it has never lost...It was accepted by all the economists of the Ricardo and Mill school, and Darwin states (*Life*, i. 68) that Malthus's essay first suggested to him the theory which in his hands made a famous epoch in modern thought...In his own time, Malthus's theory was exposed to much abuse and misrepresentation." *Dictionary of national biography*.

MEYERS historisch-geographischer kalender, auf das jahr 1898.

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ALMANACH Hachette; petite encyclopédie populaire de la vie

pratique; édition simple pour 1899. 1899.....r314.4 A44

AMERICAN agriculturist year book and almanac, 1898, 1900.

2v. 1898-1900r317.3 A512

No more published.

AMERICAN almanac. v.1-32, in 17. 1830-61.....r317.3 A51

AMERICAN almanac and treasury of facts, statistical, financial

and political; ed. by A. R. Spofford, 1882, 1887. v.5, 10.

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- AMERICAN farmers' almanac, 1830; arranged after the system of German almanacs, by C. F. Egelmann. 1830.....r317.3 A5123
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- FRANKLIN almanac, 1825-1826, 1828. 3v. in 1. 1825-28. Richmond, Va.....r317.3 F879
- FRANKLIN magazine almanac, 1820-1821.....r317.3 F87
The almanac for 1820 is imperfect; the title for the issue of 1821 is Franklin almanac.
Contains miscellaneous historical and geographical sketches, among others, a description of Pittsburgh and its vicinity in 1820.
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- JEFFERSON almanac, 1829. 1829.....r317.3 F879
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- LOOMIS'S magazine almanac, 1835-1836. v.1-2, in 1.....r317.3 W56
Almanac for 1835 contains a biographical sketch of Zadok Cramer, who set up his Pittsburgh press about 1800.
The almanac for 1836 is called Loomis's Pittsburgh almanac.
- NATIONAL almanac and annual record. 1863-64. v.1-2.....r317.3 N15
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The almanac for 1824 is called the Pittsburgh almanac and is bound with Cramer's magazine almanack, r317.3 C86.
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- TRIBUNE almanac comprehending the Politician's register and the Whig almanac, 1838-date. 1868-date.....r317.3 T73
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- WEEKLY telegraph edition of the British almanac. 1898....r314.2 W42
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GANNETT, Henry.

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SEYBERT, Adam.

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UNITED STATES—Statistics bureau.

Statistical abstract of the United States, 1879-1899. no.2-

22. 1880-1900.....r317.3 U25sta

nos.2-8 will be found in the sheep bound set of congressional documents, nos.1923, 1978, 2030, 2108, 2198 and 2392.

United States census reports

UNITED STATES—Census office.

Statistical view of the population of the United States from 1790 to 1830; furnished in accordance with resolutions of 26th February, 1833, and 31st March, 1834. 1835. (23d cong. 1st sess. Senate. Doc.505.).....qr317.3 U25s

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Aggregate amount of each description of persons within the United States and the territories thereof, agreeably to actual enumeration made according to law, in 1810.

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Forms the third part of a "Statement of the arts and manufactures of the United States."

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Census for 1820. 1821.....qr317.3 U25c4

UNITED STATES—Census office. (5th census: 1830.)

Fifth census; or, Enumeration of the inhabitants of the

United States, 1830; to which is prefixed a schedule of the whole number of persons within the several districts of the United States taken according to the acts of 1790, 1800, 1810, 1820. 1832.....qr317.3 U25c5

The above contains the three parts mentioned in the following:

"The printed results of the fifth census are contained in a large folio volume of 163 pages; but the report was so badly printed that it was republished the same year by direction of Congress under the immediate supervision of the Secretary of State. The two reports were bound together in one volume, and were preceded by a statement of the population of the several districts of the United States at the censuses of 1790, 1800, 1810, 1820, by counties, followed by a recapitulation by districts."

UNITED STATES—Census office. (6th census: 1840.)

Census of pensioners for Revolutionary or military services, with their names, ages and places of residence, as returned by the marshals of the several judicial districts, under the act for taking the sixth census. 1841....qr317.3 U25c6p

Compendium of the enumeration of the inhabitants and statistics of the United States; from the 6th census, with an abstract of each preceding census. 1841.....qr317.3 U25c6c

Sixth census; or, Enumeration of the inhabitants of the United States, as corrected at the Department of state in 1840. 1841.....qr317.3 U25c6

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their ultimate aim. 1897.....320.4 R37

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Japan.—Government of Russia.—The feudal system.—Constitutional monarchy.—The French monarchy.—The Germanic empire.—German kingdoms.—Papal states.—Sicily and Naples.—Petty principalities.—Lombardo-Venetian and Sardinian kingdoms.—Spanish and Portuguese monarchies.—Danish and Swedish monarchies.

- v.2. Of the nature of aristocracy in general.—Of balances and checks.—Progress and changes of aristocracy; oligarchy.—Foundations of aristocracy in the nature of things, natural aristocracy.—Of party.—Vices and virtues of the aristocratic polity.—Of the feudal aristocracy.—Mixed aristocracies, Poland.—Governments of Greece, Athens.—Italian governments, municipal constitutions and aristocracy.—Government of Venice.—Italian governments, Venetian terra firma.—Mixed aristocracies, Hungary.—Constitution of Rome.—Reflections on the Roman constitution.—Governments of Greece, Sparta.—Government of Genoa.—Italian governments, Milan.—Government of Florence.—Lesser Italian governments, Pisa, Bologna, Sienna, Lucca, San Marino.—Swiss aristocracies.
- v.3. Of the nature of democracy in general.—Origin of democracies.—Natural limits of pure democracies.—Extension of democracy; proper federal principle, improper federal principle, Roman polity, representative principle.—Origin and history of representation.—Qualities of representation.—Modifications of the representative principle; those only affecting the mode of election, restraints upon the right of voting.—Canons of representative government.—Application of the representative principle, foundations of mixed government.—Exercise of popular power.—Virtues of the democratic polity.—Vices of the democratic polity.—Of religious establishments.—Provincial and colonial establishments.—Nature and origin of mixed government.—Virtues and vices of mixed government.—Ultimate tendency of mixed government.—Reserved powers of the people.—Government of England; its structure in the Anglo-Saxon times, Anglo-Norman monarchy, foundation of its present constitution, the Plantagenets, the Tudors, the Stuarts, commonwealth, restoration, the Stuarts, revolution.—Constitution of England.—Government of the United States.—Government of France; republic, consulate, empire, restoration, existing constitution.—Constitution of Holland and Belgium.—Government of Switzerland.

FISKE, John.

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The author's special object is to prove that the pre-Celtic inhabitants of Britain must have helped in the fashioning of British institutions.

MAINE, Sir Henry Sumner.

Village communities in the East and West. 1889.....321.2 M26

Contents: The East and the study of jurisprudence.—The sources of Indian law.—The western village-community.—The eastern village-

community.—The process of feudalisation.—The early history of price and rent.—The effects of observation of India on modern European thought.—Addresses to University of Calcutta.—The theory of evidence.—Roman law and legal education.

"It is not only written in the judicious spirit always characteristic of the author, but it is also the fruit of special study and observation."
C. K. Adams.

SEEBOHM, Frederic.

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Inquisitions and assessments relating to feudal aids; with other analogous documents, 1284-1431; prepared under the superintendence of the deputy keeper of the records. v.1.
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MAITLAND, Frederic William.

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"Particularly valuable...The best analysis of the contents of Domesday ...Throws much light on the early history of the manor, on feudalism, classes of society, land tenures...Presents a new theory regarding the origin of boroughs, and shows that the hide contained 120 acres."
Gross's Sources and literature of English history.

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The lesson of popular government. 2v. 1899.....321.8 B68
The author has devoted more than thirty years to the study of our institutions, and of the popular government of other nations, and believes that a republic is the form of government which secures the greatest good to the greatest number, but that there must be some modifications and readjustment of the machinery unless we are to end in a military despotism. One practical step which he has long advocated is to allow members of the cabinet to occupy seats on the floor in both houses of Congress, with the right to join in debate on matters relating to their respective departments.

BROWN, W.Jethro.

The new democracy; a political study. 1899.....321.8 B79

Contents: The present theory of representative government and democracy.—The real defects of democracy.—The Hare system, with special reference to its application in Tasmania.—The referendum.—The study of history in relation to the problem of character.—The problem of union; the argument for federations stated and exemplified.—The new Australian constitution.—Some opinions of Australian leaders on the commonwealth bill.

BURNETT, Edmund C.

Government of federal territories in Europe. 1898. (Brown

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 Reprinted from the Annual reports of the American historical association, v.8, pt.1.

Outlines fundamental characteristics in the government of European federal dependencies, that is, subject territories which are not component parts of the federation. Among others, the dependencies of the early Grecian leagues, the territories of the Swiss confederation, of Italy and the Netherlands, and the federal territory of Alsace-Lorraine are treated.

CLEVELAND, Frederick A.

Growth of democracy in the United States; or, The evolution of popular co-operation in government and its results.

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DEPLOIGE, Simon.

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GIDDINGS, Franklin Henry.

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The same. 1900..... 1321.8 G37

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Unforeseen tendencies of democracy. 1898..... 321.8 G55

Contents: Former democracies.—Equality.—The nominating system.—The decline of legislatures.—Peculiarities of American municipal government.—The growth and expression of public opinion.—The Australian democracy.

"Mr Godkin's style is terse and clear, and the papers in this collection ...show both philosophical breadth and close special knowledge."
Dial, 1898.

GOODNOW, Frank Johnson.

Politics and administration; a study in government. 1900.. 321.8 G62

"Purpose...is to show...that the formal governmental system as set forth in the law is not always the same as the actual system...The concrete remedies proposed are first a greater centralization of our state administrative system...and, second the subjection of the political party, as a political organ recognized by law, to an effective public control." *Preface.*

GUIZOT, François Pierre Guillaume.

Histoire des origines du gouvernement représentatif et des institutions politiques de l'Europe, depuis la chute de l'empire romain jusqu'au 14e siècle. 2v. 1880..... 321.8 G96h

History of the origin of representative government in Europe.

1861 321.8 G96

"These lectures have deservedly obtained great popularity, not only on account of the author's pleasing method, but also for the clear in-

sight they give into the comparative conditions of the several governments of Europe during the middle ages. The second part is devoted exclusively to a consideration of the growth of representative government in England." *C. K. Adams.*

HART, Albert Bushnell.

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HYSLOP, James Hervey.

Democracy; a study of government. 1899.....321.8 H99

The author is professor of logic and ethics in Columbia university. The theories of Lecky's "Democracy and liberty," and of Godkin's "Unforeseen tendencies of democracy," are reviewed and criticised. The solution of the problems of democratic government, the author reasons, must rest in the character and responsibility of office-holders. To insure unselfish public spirit he proposes the following measures:
1, The universal adoption of civil-service reform; 2, The appointment of legislative commissions with powers of investigation and report;
3, The establishment of a court of impeachment and removal in municipalities, with an increase in the mayor's powers of appointment;
4, The limitation of the franchise for the election of municipal officers.

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Contents: The prospects of popular government.—The nature of democracy.—The age of progress.—The constitution of the United States.

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"After giving an account of the political constitutions of the principal nations of antiquity, the author passes rapidly over the Middle Ages, and then portrays at greater length the introduction of the popular element into modern governments." *C. K. Adams.*

MILL, John Stuart.

Considerations on representative government. 1882.....321.8 M68

"Well worth reading, although some of the topics discussed have lost their hold on public interest and attention." *Bowker & Iles' 'Reader's guide.'*

MOSES, Bernard.

Democracy and social growth in America. 1898.....321.8 M93

Contents: A fundamental tendency.—Conflict and socialism.—Education and democracy.—Preservation of the democratic spirit.

POMEROY, Eltweed.

Paper on direct legislation, and other papers favoring legislation by the referendum; presented July 8, 1898. 1898.

(United States—55th cong. 2d sess. Senate. Doc. no.

340.)r321.8 P77

SMITH, Orlando Jay.

The coming democracy. 1900.....321.8 S65

The author does not believe ours is a real democracy and thinks that the constitution is cumbersome and does not carry out the will of the people, and that too much power has been absorbed by the President. Other criticisms are made showing the source of many of our corruptions in politics. In place of the present systems of elections, he proposes the Free Man's ballot—"one vote for one cause and for one candidate." With explanations of this and other reforms is a glowing picture of the future democracy.

STRAUS, Oscar Solomon.

Origin of republican form of government in the United States; with introductory essay by Émile de Laveleye. 1901.....321.8 S91

Contents: De Laveleye's introductory essay.—American colonies prior to Revolution.—The political causes of the Revolution.—Religious causes of the Revolution.—The genesis of the republic.—Monarchy and the church.—The Hebrew commonwealth, the first federal republic.—The

influence of the Hebrew commonwealth upon the origin of republican government in the United States.

322 Church and state

ELLIOT, Arthur Ralph Douglas.

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FINDLEY, William.

Observations on "The two sons of oil," containing a vindication of the American constitutions and defending religious toleration against the strictures of the Rev. S. B.

Wylie. 1812.....r322 F49

Rev. S. B. Wylie's "Two sons of oil," of which this book is a criticism, is a treatise written in support of the union of church and state.

323 Internal and domestic relations

COBBETT, William.

Republican judge; or, The American liberty of the press as exhibited in the base prosecution of William Cobbett for a pretended libel against the king of Spain and his ambassador, before the Supreme court of Pennsylvania; with an address to the people of England. 1798r323 C63

Cobbett was a voluminous political writer, whose liveliness in controversy involved him in several suits for slander. This pamphlet, provoked by his prosecution for libel, is a discussion of the subject of libel and of the liberty of the American press.

"The Republican judge was Gov. M'Kean; the Spanish Ambassador, the Marquis of Casa Irujo, who married Gov. M'Kean's daughter; and in this...piece Cobbett has taken his revenge in spice." *Sabin's Bibliotheca Americana*.

MILL, John Stuart.

On liberty; Subjection of women. 1885.....323 M68

RITCHIE, David George.

Natural rights; a criticism of some political and ethical conceptions. 1895323 R49

"Serious...criticism of such a work would naturally proceed on two lines, historical and philosophical. Historically the book leaves many gaps for future investigators to fill...and if Professor Ritchie's history is incomplete, it cannot be urged in compensation that his philosophy is clear...[He] is combative and anecdotal; you enjoy his digressions, but you lose the thread of the argument." *Economic review*, 1895.

STEPHEN, Sir James Fitzjames.

Liberty, equality, fraternity. 1873.....323 S82.

324 Suffrage

CLARK, Charles Cotesworth Pinckney.

The "machine" abolished, and the people restored to power by the organization of all the people on the lines of party organization. 1900.....324 C51

"Dr. Clark's plan, which is based upon the idea that the existence of the machine is due to an imperfect election system, involves the formation of small primary assemblies in which the voter may become acquainted with the man he votes for, with the duties which the candidate, if elected, will discharge and with his ability to do so...The book is well worth careful reading." *Municipal affairs*, 1900.

LAWTON, George W.

American caucus system; its origin, purpose and utility. 1885.

(Questions of the day.).....324 L43

O'NEIL, Charles Augustine.

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"A discussion of the defects in the methods of choosing the President and Vice-President of the United States, with suggestions for reform."

Bowker & Iles' "Reader's guide."

WIGMORE, John Henry.

Australian ballot system as embodied in the legislation of

various countries. 1889.....324 W69

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COMMONS, John Rogers.

Proportional representation. 1896. (Library of economics

and politics.)324.2 C73

"Books, periodicals and societies," p.292-294.

To show the historical significance of the movement for proportional representation. Gives a detailed application of the reform to American politics, especially to city government.

MAURICE, Frederick Denison.

Workman and the franchise; chapters from English history

on the representation and education of the people. 1866. r324.2 M49

324.3 Woman suffrage

JACOBI, Mrs Mary (Putnam).

Common sense applied to woman suffrage. 1894. (Ques-

tions of the day.).....324.3 J13

"A plea to the Constitutional Convention of New York, 1894. Argues that women should have suffrage because men have; that they will do good if they vote; that they will do no harm if they do not vote."

Critic.

JOHNSON, Mrs Helen (Kendrick).

Woman and the Republic; a survey of the woman-suffrage

movement in the United States. 1897.....324.3 J36

"The attitude of the writer is that of extreme opposition to woman suffrage...These vigorous chapters will provoke discussion." *Dial*, 1897.

The author thinks that "the movement to obtain the elective franchise for woman is not in harmony with those through which woman and government have made progress."

NATIONAL AMERICAN WOMAN SUFFRAGE ASSOCIATION.

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Contents: The duties of women, by F. P. Cobbe.—Speeches of G. W.

Curtis and H. W. Beecher.—No distinction of sex in the right to vote, by J. D. Long.—The legal status of women, comp. by J. J. Cassidy.—The ballot and the bullet, comp. by C. C. Catt.—Speeches on the rights of women, by Wendell Phillips.

NATIONAL citizen and ballot box; monthly, May 1878-Oct.

1881. v.3, no.2-v.6, no.6, in 1qr324.3 N15

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STANTON, Mrs Elizabeth (Cady), and others, ed.

History of woman suffrage. 4v. 1887-1902.....324.3 S79

v.1. 1848-1861. v.2. 1861-1876. v.3. 1876-1885. v.4. 1883-1900.

Written by leaders in the movement, describing the work done by and for women during the preceding half-century. Contains portraits of prominent woman suffragists.

325 Colonies and immigration

SMITH, Richmond Mayo.

Emigration and immigration. 1895.....r325.I S65

The same. 1898.....r325.I S65

Bibliography, p.303-308.

An historical and statistical survey. Discusses the political and social effects of immigration, as also the economic gain derived from it.

UNITED STATES—Immigration and naturalization committee.

Report of the select committee on immigration and naturalization, favoring H. R.13175 amending acts relative to immigration and the importation of aliens under contract to perform labor. Jan. 14, 1891. 1891. (51st cong. 2d. sess. House. Report, no.3472.).....r325.I U2533

Report on the workings of the United States immigration laws and the expenditures in connection therewith, including the cost of improvements at Ellis Island, etc. July 28, 1892. (52d cong. 1st sess. House. Report, no.2090.)r325.I U2534

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Immigration service; report of the Immigration investigating commission to the secretary of the treasury, [Oct. 7, 1895]. 1895.....r325.I U2532

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WILKINS, William Henry.

Alien invasion. 1892. (Social questions of to-day.)r325.I W72

"Those who desire to acquaint themselves with the practice and the law of various countries as they affect the destitute foreigner will find this handbook essential to their studies." *Athenaeum*, 1892.

YOUNG, Edward, b. 1814.

Special report on immigration, accompanying information for immigrants relative to the price and rentals of land, the staple products, etc. with tables showing average weekly wages in the several states for factory, mechanical and farm labor, [etc.] in 1869-70. 1872. (United States—Statistics bureau.).....r325.I Y37

325.3 Colonization. Imperialism

ANTI-IMPERIALIST; ed. by Edward Atkinson; monthly,

June-September, 1899. v.I. 1899.....r325.3 A62

Contains "The cost of a national crime," "The hell of war and its penalties," and "Criminal aggression; by whom committed?"

BIGELOW, Poultney.

- Children of the nations; a study of colonization and its problems. 1901325.3 B47
 Traces the history of colonization and examines the present day conditions of nearly all the colonies or self governing nations which have sprung from them. There is a brief chapter on the Philippines and a calm statement of American shortcomings.

BOUTWELL, George Sewall.

- Crisis of the Republic. 1900.....325.3 B65
 Papers on the Venezuelan question and the Monroe doctrine, international arbitration, Hawaiian annexation, and numerous topics that have to do with our territorial expansion. The author is an anti-imperialist.

CALDECOTT, Alfred.

- English colonization and empire. 1897. (University extension manuals.)325.3 C12
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CHAMBERLAIN, Joseph.

- Foreign & colonial speeches. 1897.....325.3 C35
Contents: A mission to the United States and Canada.—Egypt.—The unity of empire.—The expansion of the empire.—Imperial trade.—South Africa.—Imperial policy.

CONANT, Charles Arthur.

- United States in the Orient; the nature of the economic problem. 1900.....325.3 C74
Contents: The economic basis of imperialism.—Russia as a world power.—The struggle for commercial empire.—Can new openings be found for capital?—The new economic problems.—The United States as a world power; nature of the economic and political problem; advantages in the competition for commercial empire.
 Articles republished from the North American review, Atlantic monthly and the Forum.

DILKE, Sir Charles Wentworth.

- Problems of Greater Britain. 1890.....325.3 D58

EGERTON, Hugh Edward.

- A short history of British colonial policy. 1897.....325.3 E35
 Bibliography, p.481-489.

GARDINER, Charles A.

- Our right to acquire and hold foreign territory; an address delivered before the New York state bar association. 1899.
 (Questions of the day.).....325.3 G17

IRELAND, Walter Alleyne.

- Tropical colonization; an introduction to the study of the subject. 1899325.3 I28
 Bibliography, p.227-259.
 "Not...a very profound contribution to the subject, nor is it of such a definite character as to deter any one else from entering the same field...Its importance lies less in its permanent value than in the fact that every serious discussion of colonial problems is just now worth attentive consideration." *Nation*, 1899.

JORDAN, David Starr.

- "Lest we forget;" an address delivered before the graduating class of 1898, Leland Stanford jr. university. 1898.
 (Leland Stanford junior university publications.).....325.3 J42
 Address on imperialism delivered during the Spanish-American war.
 Author, present president of Leland Stanford jr. university (1900), is an anti-expansionist.

KIDD, Benjamin.

- The control of the tropics. 1898.....325.3 K24
 The "tropics" include Siam, Burma, East Africa, the Niger territories,

Egypt, and China; and the author deals with both the English and American side of the situation. An appendix on "The principles of the relations of our civilization to the tropics" is reprinted from the author's "Social evolution."

"Mr. Kidd's little volume, which can be read in an hour, is worth more than many a pretentious work of ten times its bulk. It ought to be read all over the United States, because it lays down, in the light of historical experience, the true administrative principles upon which the United States should proceed in the practical work of making itself useful in the Philippines and in dealing successfully with the West Indies...We commend the book to all thoughtful minds as highly pertinent to the current discussion of the American policy of expansion." *Review of reviews*, 1898.

LEWIS, Sir George Cornewall.

Essay on the government of dependencies; ed. by C. P.

Lucas. 1891.....325.3 L67

Another edition has the title "Government of dependencies."

Prefaced by an editorial introduction which sketches the principal political and social changes that have taken place since Lewis's "Essay" was written in 1841.

"Lewis was a solid and shrewd thinker. He possessed a keen critical faculty, and was indefatigable in research...His writings are...distinguished by the same practical good sense, as well as the same absence of any desire for popularity, which were so noticeable in his parliamentary career." *Dictionary of national biography*.

MORRIS, Henry Crittenden.

History of colonization from the earliest times to the present

day (1900). 2v. 1900.....325.3 M91

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The first history of the whole subject for the general reader, previous works being devoted to one special field, or written from the standpoint of a particular nation, or so technical as to be useful only to the specialist. An interesting introductory chapter treats of the motives for the establishment of colonies, their use to the parent state, their advantages and disadvantages.

PARKIN, George Robert.

Imperial federation; problem of national unity. 1892.....325.3 P24

PAYNE, Edward John.

History of European colonies. 1889. (Freeman's historical course for schools.)325.3 P33

Very condensed account of the Portuguese, Spanish, French, Dutch and English colonies during the earlier dependent period, and their later development into independent or semi-independent states.

RANDOLPH, Carman F.

Law and policy of annexation with special reference to the Philippines, together with observations on the status of

Cuba. 1901325.3 R18

Examines legal, political, moral and commercial questions raised by the acquisition of the Philippines. Advocates withdrawal of United States sovereignty from the islands, and suggests the way.

REID, Whitelaw.

Problems of expansion as considered in papers and addresses.

1900325.3 R31

Appendices: Power to acquire and govern territory.—The tariff in United States territory.—The resolutions of Congress as to Cuba.—The protocol of Washington.—The Peace of Paris.

REINSCH, Paul Samuel.

World politics at the end of the 19th century, as influenced by the oriental situation. 1900. (Library of economics and politics.)325.3 R32

Contents: National imperialism.—The opening of China.—The consequences of the opening of China in world politics.—German imperial

politics.—Some considerations on the position of the United States as a factor in oriental politics.

ROBINSON, Sir John, b. 1839.

The colonies and the century. 1899.....325.3 R55

Most of the contents of this volume was originally read before the Royal colonial institute by the author, late premier of Natal.

Optimistic study of the development and experiences of the English colonies during the 19th century and of their present (1899) outlook.

SCHOLES, Theophilus E. S.

British empire and alliances; or, Britain's duty to her colonies and subject races. 1899.....325.3 S36

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SEELEY, Sir John Robert.

Expansion of England. 1891.....325.3 S45

"A book of remarkable suggestiveness and power, holding that the expansion of England in America and India is the dominant historical fact of the last three centuries." *C. K. Adams.*

SMITH, Goldwin.

Commonwealth or empire? a bystander's view of the question.

1902 325.3 S64

An argument against imperialism.

STRONG, Josiah.

Expansion under new world-conditions. 1900.....325.3 S92

Contents: Exhaustion of our arable public lands.—Our new manufacturing supremacy.—Foreign markets a new necessity.—The new China.—The new Isthmian canal.—The new Mediterranean.—The new Mediterranean an Anglo-Saxon sea.—A new world life.—A new world policy.

WALDSTEIN, Charles.

Expansion of western ideals and the world's peace. 1899...325.3 W16

Contains also "The English-speaking brotherhood."

Author is an enthusiastic advocate of expansion. "[He] feels that America, in entering among the colonizing nations, has made a distinct moral advance, and is taking up her share in the world duties which the inheritance of ideals and standards, which belong to her and to England alike, impose upon her. On the whole...[the] book is interesting from the glow and fervor with which it is written, but we doubt if its reasoning is cogent enough to influence any one seriously." *Literary world*, 1899.

ANDERSON, Rasmus Bjorn.

First chapter of Norwegian immigration, 1821-1840, its causes

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CONDIT, Ira Miller.

The Chinaman as we see him; and fifty years of work for him.

1900 325.73 C74

"Says little about the Mongolian race in its own country, and a great deal concerning its conduct in America, particularly in San Francisco, where...[the author] has been laboring among the Chinese for years ...It deserves careful study by those who are shaping our national destinies." *Dial*, 1901.

HANNA, Charles A.

Scotch-Irish; or, The Scot in north Britain, north Ireland and

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- v.5. Labor legislation, including digests of the laws of the states and territories relating to labor generally, to convict labor, and to mine labor.
- v.6. Distribution of farm products.
- v.7. Relations and conditions of capital and labor employed in manufactures and general business, including testimony so far as taken Nov. 1, 1900, and digest of testimony.
- v.8. Chicago labor disputes of 1900, with especial reference to the disputes in the building and machinery trades.
- v.9. Transportation, including testimony taken since May 1, 1900, review and topical digest of evidence, and special reports, on railway legislation and taxation.
- v.10. Agriculture and agricultural labor, including testimony, with review and topical digest thereof.
- v.11. Agriculture and taxation, including reports relating to fictitious sales of farm products, the tobacco trade, American farm labor, laws regarding agricultural boards, warehouse and elevator laws, adulteration of food products and taxation systems.
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 - v.2. Convict labor.
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 - v.7. Cost of production; textiles and glass. 2v.
 - v.8. Industrial education.
 - v.9. Building and loan associations.
 - v.10. Strikes and lockouts. 2v.
 - v.11. Work and wages of men, women and children.
 - v.12. Economic aspects of the liquor problem.
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- First printed edition of an official almanac of the Roman Empire, which was compiled in ms. by some unknown person before 408 A.D. A work of great historical importance, full of interesting wood cuts by Andrea Alciati, printed by the celebrated German printer, Johann Froben, the friend of Erasmus.
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Beginning with the report for 1865 the ordinances passed during the year are included.

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1896 q352 B41

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Municipal administration. 1901352 F16

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development during the nineteenth century. Part 2 discusses the active

functions of municipal administration; part 3 deals with the problems of municipal finance; and part 4 with the various methods and problems of municipal organization, with special reference to recent tendencies and proposed reforms in American cities.

FIELDE, Adele Marion.

Political primer of New York state and city. 1897352 F45

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Municipal public service industries. 1899.....352 F74

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Municipalities vs. private corporations; political and business management compared. 1900.....352 F87

Opposed to municipal ownership.

GLADDEN, Washington.

Cosmopolis city club. 1893.....352 G45

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Discusses problems of municipal reform and outlines in story form practical beginnings by a few public spirited citizens.

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GOODNOW, Frank Johnson.

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Town life in the 15th century. 2v. 1894.....352 G82

The author was closely associated with her husband, the late J. R. Green, the historian, in all his work and was familiar with the material he had accumulated for future labors. She considers the different features of domestic and social life, the labor question, crafts and guilds, town councils, and pays particular attention to the contrasted fortunes of towns upon the royal demesne, and those on baronial or church estates.

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- NATIONAL CONFERENCE FOR GOOD CITY GOVERNMENT.
Proceedings of the conference (1st-date), Jan. 1894-date. 1894-dater352 N15
Proceedings of the 1st conference contain a Bibliography of municipal government and reform. Beginning with the proceedings of the 2d conference the Proceedings of the annual meeting of the National municipal league, are included.
Proceedings of the 4th conference contain a chapter on Municipal condition of Pittsburg, by G. W. Guthrie.
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A municipal program; report of a committee, adopted by the league, Nov. 17, 1899, together with explanatory and other papers. 1900.....352 N15
Contents: Municipal development in the United States, by J. A. Fairlie.—Municipal problem in the United States, by H. E. Deming.—The city in the United States; the proper scope of its activities, by Albert Shaw.—The place of the council and of the mayor in the organization of municipal government, by F. J. Goodnow.—Public accounting under the proposed municipal program, by L. S. Rowe.—The power to incur indebtedness under the proposed municipal program, by B. S. Coler.—Municipal franchises, by Charles Richardson.—Political parties and city government under the proposed municipal program, by F. J. Goodnow.—Public opinion and city government under the proposed municipal program, by H. E. Deming.—A summary of the program, by L. S. Rowe.—Proposed constitutional amendments. — Proposed municipal corporations act.—An examination of the proposed municipal program, by D. F. Wilcox.
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Fourth annual message, Edwin H. Fitler, mayor, with Annual report of the Department of public safety and Annual report of the Board of health for the year 1890.
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By-laws and ordinances of the city of Pittsburgh, and the acts of Assembly relating thereto; with notes and references to judicial decisions thereon, and an appendix, relating to several subjects connected with the laws and police of the city corporation. 1828.....r352 P67b

Ordinances passed by councils since the 25th day of August, 1828 [Dec. 3, 1828—Feb. 23, 1829].....r352 P67b

Ordinances passed by councils since the 23d day of February, 1829 [June 25, 1829—May 31, 1830].....r352 P67b

Ordinances passed by councils since the 31st day of May, 1830 [Aug. 2, 1830—May 27, 1833].....r352 P67b

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Digest of ordinances of the city of Pittsburgh; to which is prefixed a collection of the acts of Assembly relating to the corporation. 1849.....r352 P67b4
Title-page, p.1-10, 127-129, 353, missing.

Ordinances passed by the select and common councils, Jan. 15, 1849—Dec. 31, 1869, with the financial reports of the city and reports of city officers for 1849-1869. [20v. in 3.] 1850-70.....r352 P67b5
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Title pages vary.

Digest of acts of Assembly, the codified ordinance of the city of Pittsburgh adopted Oct. 6, 1859, and a digest of other ordinances now in force; comp. by A. W. Foster. 1860.r352 P67b6

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bureaus of the department, for the year ending Jan. 31,
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SHAW, Albert.

Municipal government in continental Europe. 1895.....352 S53m

Contents: Paris, the typical modern city.—The French municipal system.—The systems of Belgium, Holland and Spain.—Recent progress of Italian cities.—The framework of German city government.—Municipal functions in Germany.—The free city of Hamburg and its sanitary reforms.—The transformation of Vienna.—Budapest, the rise of a new metropolis.—APPENDICES: The budget of Paris, The budget of Berlin, The French municipal code.

Municipal government in Great Britain. 1895.....352 S53

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SHERMAN, Philemon Tecumseh.

Inside the machine; two years in the Board of aldermen, 1898-1899; a study of the legislative features of the city government of New York city under the Greater New York charter. 1901352 S55

The author, a son of General W. T. Sherman, was elected in 1897 on the Citizens' Union ticket to represent the "Tenderloin" district in the Board of aldermen. The unique surroundings and associations into which he was thus thrown appealed to his sense of humor, while the manifold evils of the municipal government system under the present charter invited his caustic analysis. This book is the result.

STALLARD, Joshua Harrison.

Problem of municipal government as illustrated by the municipal government of San Francisco. 1897r352 S78
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STRONG, Josiah.

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Contents: The materialism of modern civilization.—A nation of cities.—The materialistic city a menace to itself.—The materialistic city a menace to state and nation.—Remedies; the new patriotism; twentieth century Christianity; twentieth century churches; practical suggestions.

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TIEDEMAN, Christopher Gustavus.

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WHELEN, Frederick.

London government. 1898.....352 W59

WHITE, Arnold.

The problems of a great city. 1887.....352 W63

WILCOX, Delos Franklin.

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WISCONSIN UNIVERSITY.

Mayor vs. council; should a system of municipal government concentrating all executive and administrative powers in the mayor, be adopted in cities of the United States? twenty-seventh annual joint debate [between the Athetæ and Philomathia societies]. 1897.....r352 S78

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BIRMINGHAM, England.

General and detailed financial statement for the year 1870—
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The finances of New York city. 1898.....352.1 D93

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352.2 Police

COSTELLO, Augustine E.

History of the fire and police departments of Minneapolis; their origin, progress and development. 1890.....r352.2 C83

MANN, Henry, *ed.*

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NEW YORK (state)—Lexow committee.

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5v. 1895.....r352.2 N26

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STEAD, William Thomas.

Satan's invisible world displayed. 1897.....352.2 S79

Claims to give the gist of the evidence taken before the Lexow committee, in 1894-95.

352.3 Fire department

ALLEGHENY, Pa.—Fire department.

History of the Allegheny fire departmentqr352.3 A42

DAWSON, Charles T. *ed.*

Our firemen; the history of the Pittsburgh fire department, [to 1889]. 1889.....r352.2 M33

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HILL, Charles Thaxter.

Fighting a fire. 1897.....352.3 H55

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These chapters appeared in St. Nicholas, July 1896–Oct. 1897.

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PITTSBURGH—Fire commission.

Annual report (1st-7th, 16th) of the Board of fire commissioners, May 5, 1870-Jan. 1, 1877, Jan. 1, 1886-Jan. 31, 1887. 1871-87.....r352.3 P674I

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352.4 Public health**NASHVILLE, Tenn.—Health board.**

Report (2d), for the year ending July 4, 1877. 1877.....r352.4 N14

PITTSBURGH—Health bureau.

Annual report for the year 1873, 1880-1-2-3-4-5-6, 1880-1887, 1888-1899. 1873-1900.....r352.4 P67a
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Manual of laws, and rules and regulations relating to the public health, and the construction and inspection of plumbing and house drainage. 1895.....r352.4 P67

PITTSBURGH—Public safety department.

Code of laws and manual governing the Bureau of health, 1889. [1889].....r352.4 P67c

352.5-352.7 Public works**ALLEGHENY, Pa.—Public works department.**

Report, April 6, 1891-Feb. 28, 1893. 2v. 1892-93.....r352.5 A42

CHICAGO—Public works department.

Mayor's annual message and the annual report (22d, 25th-26th) of the department, 1897, 1900-1901. 1898-1902...r352.5 C43

PITTSBURGH—Public works department.

Annual report of the department for the year 1889-1898, [Feb. 1, 1889-Jan. 31, 1899]. 1890-99.....r352.5 P67
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BOSTON—Water commission.

Annual report (5th), for the year ending Jan. 31, 1900. 1900.r352.6 B64

MASSACHUSETTS—Metropolitan sewerage commission.

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Inquiry into the conditions relating to the water-supply of the city of New York. 1900.....r352.6 N26

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ROBERTS, William Milnor.

Report [to the finance committee] on the new water works of the city of Pittsburgh. Feb. 19, 1874. 1874. (Pittsburgh—Councils.).....r352.6 R53

Report made in accordance with resolution of councils, passed Dec. 8, 1873: "That the Finance committee are hereby instructed...to employ a competent engineer...to measure and estimate all work done, and material furnished, and report to Councils, whether the same corresponds with the money expended."

BOSTON—Street department.

Annual report of the Street department for the year 1899, 1900. 1900.....r352.7 B64

NEW YORK (city)—Street cleaning department.

Report, 1900. 1900.....r352.7 N26
For Col. Waring's report of the work of the department, 1895-97, see 628.4 W220.

PITTSBURGH—Highways and sewers bureau.

Official hand book; compendium and historical sketch, Bureau of highways and sewers; ed. for the bureau by J. M. Kelly. 1898.....r352.7 P67

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AUSTIN, Oscar Phelps.

Uncle Sam's secrets; a story of national affairs.....j353 A93
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BARTLETT, William H.

Facts I ought to know about the government of my country. 1894.....353 B27
"Reference books," p.157-158.
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BROOKS, Noah.

How the Republic is governed. 1895.....353 B77
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enues, coinage, pensions, suffrage, public lands, etc.

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DAWES, Anna Laurens.

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GILLET, Ransom H.

Federal government; its officers and their duties. 1871.....353 G41

JAMES, James Alton, & Sanford, A. H.

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MASON, Edward Campbell.

Veto power; its origin, development and function in the
government of the United States, (1789-1889); ed. by
A. B. Hart. 1891. (Harvard historical monographs.)..353 M44
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MOWRY, William Augustus.

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course for schools. 1898.....j353 M94

PEYTON, Balie.

Speech upon the resolution of Mr Wise, proposing a select
committee of investigation of the executive departments,
and Mr Pearce's amendment to the same; delivered in the
House of representatives, Dec. 15, 1836. 1836.....r353 P47

STRONG, Frank, & Schafer, Joseph.

The government of the American people. 1901.....353 S92
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government.—Origin of the national government.—The national gov-
ernment.

UNITED STATES—Covode committee.

Covode investigation; report of the committee appointed
to investigate charges that improper means had been
used by President Buchanan to influence the action of
Congress on the Lecompton bill, &c. 1860. (36th cong.
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the executive departments. 1837.....r353 P47
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UNITED STATES—President.

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1789-1897, by J. D. Richardson. 10v. 1896-99.....r353 U25
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dexed.

Veto messages of the presidents from Washington to Cleve-
land, with the action of Congress thereon; comp. by B. P.
Poore. 1886. (49th cong. 2d sess. Senate. Mis. doc.
no.53.).....r245I

WHITNEY, Reuben M.

Protest against the proceedings of the select committee of the
House of representatives to investigate the executive
departments, Jan. 25, 1837. 1837.....r353 P47
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353.1 State department

MICHAEL, William Henry.

History of the Department of state of the United States; its formation and duties, together with biographies of its present officers and secretaries from the beginning. 1901.

(United States—State department.).....r353.1 M66

UNITED STATES—State department.

Register, 1887-1888, 1892, 1893, 1897. 1888-97.....r353.1 U25

353.2 Treasury department

MAYO, Robert.

Synopsis of the commercial and revenue system of the United States as developed by instructions and decisions of the Treasury department for the administration of the revenue laws, with supplement. 2v. 1847..qr353.2 M54
Title of the supplement reads, "Treasury department and its fiscal bureaus; their origin, organization and practical operations illustrated.

UNITED STATES—Comptroller of the treasury, Office of.

Decisions, [Oct. 1, 1894-date]. v.1-date. 1896-date.

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Digest of decisions of the Second comptroller of the treasury. v.4. 1899. (Treasury department.).....r353.2 U25d

The office of Second comptroller was abolished by act of July 31, 1894, and his duties transferred to the First comptroller who became Comptroller of the treasury.

UNITED STATES—Customs division.

Digest of decisions of the Treasury department and of the Board of U. S. general appraisers under tariff acts of 1883, 1890, 1894 and 1897, rendered during 1898-1900. 1901..r353.2 U253d

UNITED STATES—Treasury department.

Synopsis of the decisions of the department on the construction of the tariff, navigation, and other laws for 1880.

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353.3 Interior department

UNITED STATES—Abstracted Indian trust bonds committee.

Report of the select committee to inquire into and report the facts in relation to the fraudulent abstraction of certain bonds held by the government in trust for the Indian tribes from the Department of the interior. 1861.

(36th cong. 2d sess. House. Doc. no.78.).....r353.3 U253

UNITED STATES—Interior department.

Annual register, containing a list of the persons employed in the department, 1877, 1883. 1877-83.....r353.3 U25a

Annual report of the secretary of the interior, 1849-date.

1849-dater353.3 U25

pts.2-3 of the report for 1890 are wanting.

A part of the report for 1851 is bound with the report of the secretary of the navy for 1851, r353.7 U25.

The reports of the Geological survey (qr557.3 U25a), the commissioner

of education (r379.7 U25), the Department of labor (r331 U25an) and the Land office report (r336.1 U25de), which form part of this report are catalogued separately.

A list of the bureaus, &c., whose reports are made to the secretary of the interior and are, therefore, included in his report, will be found on p.146 of the Document check list, 1895. This is kept at the reference desk.

List of books, reports, documents and pamphlets, printed or published by this department from 1789 to 1881. 1882.
(47th cong. 1st sess. Senate. Ex. doc. no. 182.).....r1991

353.4 Post-office department

DORSEY, John W. *and others.*

Proceedings in the trial of the case of the United States vs.
J. W. Dorsey, J. R. Miner and others for conspiracy. 3v.
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NEWCOMB, Harry Turner.

Postal deficit; an examination of some of the legislative and administrative aspects of a great state industry. 1900.....353.4 N26

UNITED STATES—Post-office and post-roads committee.

Report on the condition of the Post-office department, presented June 9th, 1834. 1834. (23d cong. 1st sess. Senate. Doc. no.422.).....r353.4 G94
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UNITED STATES—Post-office department.

Annual report of the postmaster-general, 1837-1842, 1847-1849,
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Report for 1877 wanting.

Report for 1849 is bound with the report of the secretary of war for
1849, r353.6 U25.

Report for 1851 is bound with the report of the secretary of the navy for
1851, r353.7 U25.

Reports for 1837-42, 1853-54, 1856, 1859, 1862-63, 1865-67, 1869, 1872 and
1876 will be found in the sheep bound set of congressional documents,
numbered respectively, 321, 344, 363, 375, 401, 418, 712, 778, 894, 1025,
1159, 1184, 1254, 1286, 1327, 1411, 1562 and 1748.

Official postal guide, Jan. 1895, Jan. 1897, Jan. 1899, Jan.
1901-date. 1895-date.....r353.4 U25

Postal laws and regulations of the United States. 1887. (50th
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90.)r353.4 U25p

353.5 Judiciary department

CARSON, Hampton Lawrence.

Supreme court of the United States; its history and its centennial celebration, Feb. 4th, 1890. 2v. 1891.....qr353.5 C23

Published under the direction and authority of the Judiciary centennial committee of the New York state bar association.

The same; supplement. pt.1. 1892.....qr353.5 C23 v.3
pt.1. George Shiras, jr.

GARLAND, A.H.

Experience in the Supreme court of the United States;
with some reflections and suggestions as to that tribunal. 1898.353.5 G18

UNITED STATES—Congress, 7th, 1st sess.

Debates in the Congress of the United States on the bill for repealing the law "for the more convenient organization of the courts of the United States," during the first session of the seventh congress, [Jan. 4—Mar. 3, 1802].

1802r353.5 U25

UNITED STATES—Justice, Department of.

Annual report of the attorney-general for the year 1870—date. 1870—date.....r353.5 U253a

Reports for years 1870—1873, 1875—1879, 1881—1883 will be found in sheep bound set of congressional documents, numbered respectively, 1454, 1510, 1545, 1606, 1686, 1751, 1802, 1852, 1913, 1986, 2103 and 2193.

Digest of the official opinions of the attorneys-general, comprising all of the published opinions contained in v.1—16 inclusive, and embracing the period from 1789 to 1881; prepared by A. J. Bentley. 1885.....r353.5 U253d

Official opinions of the attorneys-general of the United States, advising the president and the heads of departments in relation to their official duties, and expounding the constitution, treaties, and the public laws of the country. v.17—date. 1891—date.....r353.5 U253

Opinions of the attorneys-general giving construction to public laws not of a temporary character, 1789 to March 1, 1841. 1841. (26th cong. 2d sess. House. Ex. doc. no.123.).....r353.5 U2530

Register of the Department of justice and the judicial officers of the United States, corrected to Sept. 1, 1874. 1874.....r353.5 U2532

353.6 War department

GARDNER, Charles K. *comp.*

Dictionary of all officers who have been commissioned or appointed and served in the army of the United States, 1789—1853. 1853.....r353.6 G18

HEITMAN, Francis Bernard, *comp.*

Historical register of the officers of the Continental army. 1893.qr353.6 H42h

Historical register of the United States army from its organization, 1789 to 1889. 1890.....qr353.6 H42

LIEBER, Guido Norman.

Remarks on the army regulations and executive regulations in general. 1898.....r353.6 L69

POWELL, William Henry, *comp.*

List of officers of the army of the United States, from 1779 to 1900. 1900.....r353.6 P87

Embraces a register of all appointments by the president in the volunteer service during the Civil war, and of the volunteer officers in the service June 1, 1900.

Published by L. R. Hamersly & co., New York.

RODENBOUGH, Theophilus Francis, *comp.*

From everglade to cañon with the Second dragoons, (2d

- United States cavalry); an account of services in Florida, Mexico, Virginia, and the Indian country, 1836-1875. 1875.....r353.6 R58
- RODENBOUGH, Theophilus Francis, & Haskin, W.L. *ed.*
The army of the United States; historical sketches of staff and line, [1789-1895]. 1896.....r353.6 R58
- UNITED STATES—Adjutant-general's office.
Official army register, 1882-1883, 1896-date. 1882-date...r353.6 U250
Official register of officers of volunteers in the service of the United States, organized under the act of Mar. 2, 1899.
1900r353.6 U2532
- UNITED STATES—House—24th cong.
Resolutions, laws and ordinances relating to pay, half pay, and other promises made by Congress to the officers and soldiers of the Revolution; to the settlement of the accounts between the United States and the several states and to funding the Revolutionary debt. 1838.....r353.6 U253
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- UNITED STATES—Judge-advocate-general.
Digest of opinions of the judge-advocates general of the army; originally compiled by W. Winthrop, revised ed. (including opinions to Jan. 1, 1901), by Charles McClure. 1901. (War department. Doc. no.137.)r353.6 U2534
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Circular. no.5-7. 1866-67.....qr353.6 U2533
no.5. Report on epidemic cholera in the army of the United States, during the year 1866.
no.6. Reports on the extent and nature of the materials available for the preparation of a medical and surgical history of the Rebellion.
no.7. Report on amputations at the hip-joint in military surgery.
- Drill regulations and outlines of first aid, for the hospital corps, United States army. 1900.....r353.6 U25d
- UNITED STATES—War department.
Annual reports of the War department, 1837-1843, 1847-1849, 1851-date. 1838-date.....r353.6 U25
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Reports for 1837-43, 1848, 1856, 1863 & 1874 will be found in the sheep bound set of congressional documents, numbered respectively, 321, 338, 363, 375, 401, 418, 537, 894, 1184, 1635.
- Medals of honor issued by the department up to and including Oct. 31, 1897; with the laws, orders and regulations relative to the medal, the ribbon to be worn with the medal and the knot to be worn in lieu of the medal.
1897qr353.6 U25m
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353.7 Navy department

CALLAHAN, Edward William, *ed.*

List of officers of the navy of the United States and of the marine corps, from 1775 to 1900; compiled from official records. 1901r353.7 C13
Published by L. R. Hamersly & co., New York.

HAMERSLY, Lewis Randolph, *comp.*

Records of living officers of the U. S. navy and marine corps. 1902qr353.7 H19

KELLEY, James Douglas Jerrold.

Our navy, its growth and achievements. 1897.....qr353.7 K16

MICHAEL, William Henry, *comp.*

United States laws relating to the navy, marine corps, etc.; comp. from the revised statutes and subsequent acts of June 17, 1898, with a digest of the decisions of the courts and opinions of the attorneys-general. 1898.....r353.7 M66

UNITED STATES—Naval contracts and naval expenditures committee.

Report, with testimony. (35th cong. 2d sess. House.

Doc. no.184.).....r353.7 U253

This committee was appointed to investigate the management of the Brooklyn and Philadelphia navy yards, the purchase of anthracite coal for the navy and the contracts made in 1857 and 1858 for live-oak for the navy.

UNITED STATES—Navigation bureau. (Navy department.)

List and station of the commissioned and warrant officers of the navy and of the marine corps, 1898-1903. 6v.

1898-1903.r353.7 U2534

UNITED STATES—Navy department.

Register of the commissioned and warrant officers of the navy and of the marine corps, 1867, 1895-date. 1867-date....r353.7 U25r
Register for 1898-date is bound with the army register for the same year, r353.6 U250.

Report of the secretary of the navy, 1837-1842, 1847-1849,

1851-date. 1837-dater353.7 U25

Reports for 1849 and 1852 are bound with the reports of the secretary of war for the corresponding years, r353.6 U25.

Reports for 1837-42, 1848, 1853, 1859, 1866-67, 1869, 1871-72, 1876 will be found in the sheep bound set of congressional documents, numbered respectively, 321, 338, 363, 375, 401, 537, 712, 1025, 1286, 1327, 1411, 1507, 1562 and 1748.

353.9 State government

New York

NEW YORK (state)—Adjutant-general's office.

Annual report of the adjutant-general, for the year ending

Dec. 31, 1867. 3v. 1868.....r353.9 N26a

v.2-3. Register of officers commissioned in the volunteer regiments from N. Y., 1861-1865.

New York in the Spanish-American war, 1898. 3v. 1900.. r353.9 N26

Being part of the Report of the adjutant-general for 1900.

ROBERTS, James A. *ed.*

New York in the Revolution as colony and state; records

discovered, arranged and classified in 1895-1898.

1898qr353.9 R53

Gives the names, rank and organization of the men furnished by New York during the Revolution. These are taken from the original muster and pay-rolls in the state archives, and show that New York furnished a much larger quota than she is generally credited with, previous lists taken from other than original sources being very incomplete.

Ohio

OHIO—State department.

Annual report of the secretary of state, including the statistical report to the General assembly for the year ending Nov. 15, 1872-1873, 1875, 1878-1879. 1873-80.r353.9 O18a

Report for 1875 contains a list of members and officers of the several constitutional conventions and general assemblies, with abstract of votes for governor at each election since the organization of the state government.

Report for 1878 contains a list of Ohio territorial and state governors from 1788 to 1880, and senators and representatives in Congress from 1789 to 1881.

Pennsylvania

PENNSYLVANIA—Adjutant general.

Annual report, 1863-date. 1864-date.r353.9 P396

The report for 1874 will be found in the Executive documents, 1874, r328.74 P39e.

The reports for 1867, 1872-1873 are wanting.

The report for 1866 contains rosters of field and staff of regiments and of officers of unattached companies and independent batteries.

PENNSYLVANIA—Attorney general.

Report, for the year ending Dec. 31, 1887-date. 1889-date.r353.9 P39a

PENNSYLVANIA—Electoral college.

Proceedings, Dec. 2, 1840. 1840.r353.9 N24

Bound with other pamphlets.

Another copy is bound with other pamphlets and marked, r974.8 B48.

The same, Dec. 4-5, 1844. 1844.r327 U2533

Bound with other pamphlets.

PENNSYLVANIA—Governor. (J. A. Beaver.)

Message to the General assembly, Jan. 1, 1889. 1889.r353.9 P39g

Contains the report of the secretary of the commonwealth, Jan. 18, 1887 to Dec. 19, 1888.

PENNSYLVANIA—House of representatives.

Report of the majority and minority of the select committee appointed to inquire into the charge of bribery preferred against Daniel M'Cook. 1846.r353.9 N24

Bound with other pamphlets.

PENNSYLVANIA—Internal affairs department.

Annual report of the secretary for the year ending Nov. 30, 1879-date; pt.1, Land office, boundary lines, state weather service; pt.2, Assessments and taxes. 1880-date.r353.9 P398

Early reports include reports on the Land office and assessments only.

1896 is the last year for which the Weather bureau issued a report.

pt.3, Report of the Bureau of industrial statistics, is marked r331 P39.

pt.4 on Railroads, canals, &c. is marked r656 P399i.

pt.5, Report of inspectors of mines, is marked r622.33 P39m.

PENNSYLVANIA—Military department.

Annual report, for the year ending Dec. 1, 1864-1865. 2v.

1865-66.r353.9 P39

Contains Roster of commissions issued to officers of Pennsylvania volunteers, Dec. 1, 1863-Dec. 1, 1865, with date of rank.

PENNSYLVANIA—Public printing and binding, Office of superintendent of.

Annual report of the superintendent of public printing and binding for the year ending June 30, 1894-date. 1894-date

r353.9 P399

PENNSYLVANIA—Secretary of state.

Report, Jan. 18, 1887 to Dec. 19, 1888. (In Pennsylvania—Governor. (J. A. Beaver.) Message to the General assembly, Jan. 1, 1889, p.47-59.).....

r353.9 P39g

The same, for the two years ending Nov. 30, 1890, 1898.

1890-98

r353.9 P3994

Report for the period ending Nov. 30, 1890 covers 23 months only.

PENNSYLVANIA. Statutes.

Military code of Pennsylvania, printed for the use of the National guard of Pennsylvania. 1898.....

r353.9 P3997

SHIMMELL, Lewis S.

Pennsylvania citizen. 1900.....

353.9 S55

A complete history of the civil government of Pennsylvania, containing also the essentials of the national government. Specially adapted for use in grammar schools.

Rhode Island

SMITH, Joseph Jencks, *comp.*

Civil and military list of Rhode Island, 1800-1850; a list of officers elected by the General assembly from 1800 to 1850, also officers in Revolutionary war, appointed by Continental congress, and in the regular army and navy, to 1850, including volunteer officers in War of 1812 and Mexican war, and officers in privateer service during colonial and Revolutionary wars, and the War of 1812. 1901

qr353.9 S65

South Carolina

SOUTH CAROLINA—Legislature.

Address of the minority of the Legislature to the people, explaining their reasons for accepting the report of the joint committee on federal relations, on the amendment of the constitutional oath of office; with accompanying documents. 1834.....

r353.9 N24

Bound with other pamphlets.

Confederate States

CONFEDERATE STATES OF AMERICA—Justice, Department of.

Report of the attorney general, [for the six months ending Nov. 1, 1864], with the report of the superintendent of

public printing [April 26-Oct. 26, 1864]. 1864.....r973.7 C55
Bound with other pamphlets.

354 Foreign state governments

ALMANACH de Gotha, 1868, 1871-1872, 1875-1888, 1896-date.

105e, 108e-109e, 112e-125e, 133e année-date. 1867-date..r354 A44

FORBES, Archibald.

The Black Watch; the record of an historic regiment.

1897354.42 F75

FORD, Worthington Chauncey, *comp*

British officers serving in America, 1754-1774. 1894.....qr354.42 F76

Reprinted from the New-England historical and genealogical register,
1894.

British officers serving in the American revolution, 1774-1783.

1897qr354.42 F76b

A continuation of "British officers serving in America, 1754-1774."

FORTESCUE, John William.

History of the British army [to 1870]. v.1-3. 1899-1902..354.42 F79

v.1-2. To the close of the Seven years' war.

v.3. From the close of the Seven years' war to the second Peace of
Paris, 1763-1793.

Contains many battle maps.

"He has dealt not merely with the story of its embodiment, arming,
equipment, and organization, but with the general history of all the
wars in which it has been engaged...We have not found a single
campaign of any importance on which Mr. Fortescue has not brought
new information and judicious criticism to bear." *Literature, (Eng.)*,
1899.

History of the 17th Lancers. 1895.....qr354.42 F79

GRIFFITHS, Arthur George Frederick.

English army; its past history, present condition, and future

prospects354.42 G89

MAURICE, Col. Frederick.

National defences. 1897. (English citizen series.).....354.42 M49

NORWAY, Arthur Hamilton.

History of the post-office packet service. 1895.....354.42 N46

Account of that portion of the English navy engaged in the foreign
packet trade, from its beginning in 1688 to 1815, compiled mostly from
the official records of the Post-office service. Sketches the engage-
ments with American privateers during the War of 1812.

POLITICIAN'S handbook; a review and digest of the state

papers, diplomatic correspondence, reports of royal com-

missions, select committees, treaties, consular reports,

&c.; ed. by H. Whates, session 1899-date. [v.1-date.]

1899-date.....r354.42 P76

RICHARDS, Walter.

Her Majesty's army; a descriptive account of the various regi-

ments now comprising the Queen's forces, from their first

establishment. 3vqr354.42 R41

COLDSTREAM, John Phillip.

Institutions of Austria. 1895.....354.43 C68

Brief summary of the history, government, law, religion, education, army
and navy, commerce and industry of Austria.

ALMANACH royal, 1779.....r354.44 A44

BODLEY, John Edward Courtenay.

France. 2v. 1898. 354.44 B58

v.1. The revolution and modern France.—The constitution and the chief of the state.

v.2. Parliamentary system.—Political parties.

Each volume has its own index.

This work is the result of wide reading and study, of seven years' residence in many parts of France, of much converse with people of all ranks and parties, from such men as Renan, Taine and Clemenceau, to peasants and shopkeepers.

"A work which is the worthy outcome of well-spent years and which will take rank with Mr Bryce's 'America' and Sir Donald Mackenzie Wallace's 'Russia' among the few books which enable nations to understand nations." *The Times*, (London), 1898.

UNITED STATES—Insular commission.

Report of the United States insular commission to the secretary of war upon investigations made into the civil affairs of Porto Rico, with recommendations, June 9, 1899. 1899. (United States—Insular affairs division.) . . r354.7 U25

DOUGLAS, James.

Canadian independence, annexation and British imperial federation. 1894. (Questions of the day.) . . . 354.71 D75

355 Military science

For United States war department, see 353.6

For Military engineering, see 623

An ABSENT-MINDED war; some reflections on our reverses and the causes which have led to them, by a British staff officer. 1900. 355 A16
Inspired by the Anglo-Boer war of 1899–1901. In large part a criticism of the methods of training English army officers.

ARCHIBALD, James Francis Jewell.

Blue shirt and khaki; a comparison. 1901. 355 A67

Contents: The new soldier and his equipment.—British and American recruits.—The common soldier in the field.—The officers.—American and British tactics.—Feeding the two armies.—The railroad in modern war.—Transportation of troops by sea.—The last days of the Boer capital.—The British in Pretoria.

By an American war correspondent who has been through both the Cuban and South African campaigns and who compares English and American army methods. Book makes a powerful, if not altogether just, appeal to American national vanity.

The ARMIES of to-day. 1893. 355 A72

Contents: The army of the United States, by Gen. Merritt.—The standing army of Great Britain, by Gen. Wolseley.—The German army, by Col. Exner.—The French army, by Gen. Lewal.—The Russian army, by a Russian general.—The Austro-Hungarian army, by Gen. von Kuhn.—The Italian army, by Goiran.—The Mexican army, by T. A. Janvier.—The military situation in Europe, by Col. Exner.

The same. 1893. r355 A72

ATTERIDGE, Andrew Hilliard.

Wars of the 'nineties; a history of the warfare of the last ten years of the 19th century. 1899. qr355 A88

Contents: The reconquest of the Soudan.—The Spanish-American war.—Chitral and the N. W. frontier campaign.—The Chino-Japanese war.—The Greco-Turkish war.—The Matabele wars.—The French conquest of Madagascar.—Recent campaigns in West Africa.—Civil wars in South America.—Campaigns in eastern and central Africa, 1890–1899.—

The second civil war in the Philippines.—Siam, the French on the Menam river.—Manipur and Thobal.—Note on the Shirkeleh expedition and the pursuit of the khalifa.

AUSTIN, Oscar Phelps.

Uncle Sam's soldiers; a story of the war with Spain.....j355 A93

Story based upon the experience of two boys verging upon manhood who served with the armies in Cuba, Puerto Rico, and the Philippines. Designed to give young readers information about modern military methods.

BALDOCK, Thomas Stanford.

Cromwell as a soldier. 1899. (Wolseley series.).....355 B19

"The aim...is to give a succinct account of Cromwell's life as a soldier, pointing out how his genius taught him to reject one after the other the principal military errors of his day, and how, under his guidance, a crude untrained militia developed in a few years into the most perfect regular army of that period." *Preface.*

BARRIE, George, *pub.*

Army and navy of the United States from the Revolution to the present day; a record of the formation, organization, and general equipment of the land and naval forces of the republic, ed. by William Walton, A. B. Gardiner and H.

C. Taylor. 2v. 1889-95qr355 B26

Has the official approval of the State, War and Navy departments. There are several hundred illustrations, many of them full-page and colored, illustrating every branch of the service at all periods. A supplement contains lists of officers and estimates of forces from the beginning of the Revolution through the Civil war.

BELL, Charles Perceval Lynden Lynden.

Primer of tactics, fortification, topography and military law.

1899355 B39

BIGELOW, John, *jr.*

Principles of strategy illustrated mainly from American campaigns. 1891.....qr355 B47

BLOCH, Ivan Stanislavovitch.

Future of war in its technical, economic and political rela-

tions; is war now impossible? 1899.....355 B55

Translation of the sixth volume of the original work. Author is a well-known political economist of Warsaw. He attempts to prove that there can never be another largely destructive international war.

"Aside from its optimistic theory, M. Bloch's book is valuable as a thoroughly intelligible compendium of information on the military and naval strength and the economic conditions of the great European States." *Independent*, 1899.

BLOOMFIELD, B. *comp.*

Quartermaster's guide; being a compilation from the army regulations and other sources. 1862.....r355 C74g

Author was quartermaster in the Confederate army. Bound with other pamphlets.

BUCKHOLTZ, L. von, *comp.*

Tactics for officers of infantry, cavalry and artillery. 1861..r355 B85

BURNHAM, William Power.

Three roads to a commission in the United States army.

1898355 B93

CONFEDERATE STATES OF AMERICA—Adjutant and inspector general's office.

General orders from the Adjutant and inspector general's office, Confederate States army, for the year 1863.

1864r355 C74g

CONFEDERATE STATES OF AMERICA—War department.

Army regulations adopted for the use of the army of the Confederate States, in accordance with the late acts of Congress, [with] an act for the establishment and organization of the army, also [the] articles of war. 1861...r355 C74

The same, 1864. Ed.3. 1864.....r355 C74r
Title page reads Regulations for the army.

Regulations for the army of the Confederate States and for the Quartermaster's department and Pay department. 1861.....r973.7 C74a
Bound with other pamphlets.

Regulations for the Subsistence department. 1861.....r355 C74g
Bound with other pamphlets.

Regulations of the Confederate States army for the Quartermaster's department including the pay branch thereof. 1864.....r355 C74g
Bound with other pamphlets.

CONFEDERATE STATES OF AMERICA—War department—Department of Northern Virginia.

General orders, no.64, May 18, 1863.....r973.7 C74h
Orders relating to findings of various courts martial.
Bound with other pamphlets.

CONNELL, F.Norreys.

How soldiers fight; an attempt to depict for the popular understanding the waging of war and the soldier's share in it. 1899355 C75
Popular and elementary, mainly addressed to the young volunteer. Describes old-time warfare, modern cavalry, artillery and infantry, and makes some prophecies concerning battle in the future.

DECLE, Lionel.

Trooper 3809, a private soldier of the third republic. 1899...355 D36
Detailed account of the French army system from the actual experience of a cavalry trooper. The introduction describes the military organization. The author aims to show that the conditions which make possible a Dreyfus case, are owing to arbitrary, unjust and defective discipline.

FARROW, Edward S. *comp.*

Military encyclopedia; with supplement. 3v. 1895.....qr355 F25

FORSYTH, Gen. George Alexander.

Story of the soldier. 1900. (Story of the West series.)....355 F78

FURSE, George Armand.

Provisioning armies in the field. 1899.....355 F99

GOLTZ, Colmar, freiherr von der.

The conduct of war; a brief study of its most important principles and forms. 1896.....355 G59
Refers to our Civil war in illustration of some of the points discussed.

HAMLEY, Sir Edward Bruce.

Operations of war explained and illustrated. 1889.....qr355 H21

HART, Reginald Clare.

Reflections on the art of war. 1897.....355 H31

HOENIG, Fritz August.

Inquiries into the tactics of the future, developed from modern military history; tr. fr. the German by Carl Reichmann. 1898355 H67

The same. 1898.....r355 H67

HOHENLOHE-INGELFINGEN, Kraft, prinz zu.

- Letters on strategy; ed. by W. H. James. 2v. 1898. (Wolseley series.) 355 H68
- v.1. The campaign of 1806, from the 8th to 14th Oct.—The campaign of 1859, from the 29th April to 4th June.—The campaign from the 1st to 8th Aug., 1870.
- v.2. The campaign from the 23d Aug. to the 1st Sept., 1870.

JERRAM, Charles S. *comp.*

- Armies of the world. 1900. r355 J28
- "Gathers from official and other trustworthy documents the main facts as to the strength and organization of the military forces of the civilized nations, their cost, mode of recruitment, tactics and supply sources. The details of army structure and management are enlivened by comments upon the political and economic significance of war preparation." *Nation*, 1900.

JOURNAL of the Military service institution of the United

- States; quarterly. v.1-date. 1880-date r355 J46
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KÖPPEN, Fedor von.

- Armies of Europe. 1890. r355 K38
- "An admirably constructed volume, giving an accurate view of the armies of Europe, but so intensely German in tone as not to be quite fair to the French." *Athenæum*, 1890.
- Colored plates.

LEE, J. K. *ed.*

- Volunteer's hand book; containing an abridgement of Hardee's Infantry tactics. 1861. r973.7 L52
- Author was captain of 1st Virginia volunteers.
- Bound with other pamphlets.

LIEBE, Georg.

- Der soldat in der deutschen vergangenheit, 15.-18. jahrhundert. 1899 qr355 L68
- "A series of 183 most interesting illustrations, all reproductions of early engravings and woodcuts...taken from...chronicles, beginning with 1482, and well authenticated...Here are early artillery and matchlocks, single combats and battle scenes, fortifications and sieges, fighters and camp followers, the plundering soldier and the plundered peasant, the soldier's sweetheart and his victim, the early surgeon and the executioner, also a bit of 'Wallenstein's camp'—together with curious old verse. An intelligent text connects the whole, which may serve as a companion to Gustav Freytag's 'Bilder aus der Vergangenheit.'" *Saturday review*, 1899.

McCLELLAN, Gen. George Brinton.

- The armies of Europe, comprising descriptions in detail of the military systems of England, France, Russia, Prussia, Austria and Sardinia, adapting their advantages to all arms of the United States. 1861. r355 M13
- Report of observations in Europe during the Crimean war.

MAGUIRE, Thomas Miller.

- Outlines of military geography. 1899. 355 M25
- Contents:* The importance of the study of military geography.—The leading principles of strategy and military geography.—Other strategical considerations.—Command of the sea.—The strategic importance of the Mediterranean.—The United Kingdom with regard to sea power.—The strategic relations of Europe with other continents.—Frontiers in their relation to military operations.—Fortification as related to military geography.—The principal routes of invasion and main lines of communication.—European defiles and roads.—Historic lines of invasion.—Influence of climate on military operations.

MAURICE, Col. Frederick.

- Balance of military power in Europe. 1888. 355 M49b

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- MILES, Gen. Nelson Appleton.
 Military Europe; a narrative of personal observation and personal experience. 1898.....q355 M68
Contents: With the Turkish and Greek armies in time of war.—The military and naval glory of England as seen at the Queen's jubilee, June 1897.—Military manœuvres.
- NAPOLEON I, emperor of the French.
 Military maxims of Napoleon; tr. fr. the French by Sir G. C. D'Aguilar; with an introduction by the author of "An absent-minded war." 1901355 N12
 Rules concerning the conduct of a campaign and the tactics of the battlefield. The introduction applies the maxims to certain operations in the South African war.
- OMAN, Charles William Chadwick.
 A history of the art of war. v.2. 1898.....355 O24
 v.2. Middle ages, 4th to 14th century.
 "The present volume is intended to form the second of a series of four, in which I hope to give a general sketch of the history of the art of war from Greek and Roman times down to the beginning of the nineteenth century." *Preface.*
- PATTEN, George Washington, *comp.*
 Cavalry drill and sabre exercise; compiled agreeably to the latest regulations of the War department from standard military authority. 1862.....r355 C74g
 Bound with other pamphlets.
- REED, Hugh T.
 Cadet life at West Point. 1896.....355 R28
 Containing an appendix on the method of appointment of cadets, some specimen examination papers, and the course of study and books used at the academy.
- STONE, F. Gleadowe.
 Tactical studies from the Franco-German war, 1870-71.
 1886.....355 S87
- TUTHERLY, Herbert E.
 Elementary treatise on military science and the art of war.
 1898355 T88
 Contains an appendix on the Cuban war.
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- UNITED service; a quarterly review of military and naval affairs, Jan. 1879-Apr. 1897, 1902-date. v.1-date. 1879-dateqr355 U2535
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 Third ser.v.1-date is numbered v.32-date.
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- UNITED STATES—Adjutant-general's office.
 The soldier's handbook for use in the army of the United States. 1898.....r355 U25s
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- UNITED STATES—Military academy, Select committee to investigate hazing at.
 Report submitting H.14127, to aid in enforcement of discipline at Military academy; with testimony upon hazing of O. L. Booz, and upon the subject of the practice

- of hazing at the academy. Feb. 9, 1901. 3v. 1901.
(56th cong. 2d sess. House. Report no.2768.).....r355 U2536
- UNITED STATES—Military commission to Europe, 1854-56.
Reports. 3v. 1857-61.....qr355 U2533
v.1. Report on the art of war in Europe in 1854, 1855 and 1856, by R. Delafield.
v.2. Report, by G. B. McClellan.
v.3. Report, by Alfred Mordecai.
- UNITED STATES—Military information division.
Notes and tables on organization and establishment of the Spanish army in the peninsula and colonies. 1898.
(Adjutant-general's office.).....r355 U2534
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- UNITED STATES—Ordnance office.
Description and rules for the management of the U. S. magazine rifle and carbine, calibre .30. 1898.....r355 U25de
- UNITED STATES—Quartermaster's department.
Manual for the Quartermaster's department in the army of the United States. 1897.....r355 U25m
Manual of instructions for quartermasters serving in the field, prepared by D. E. McCarthy. 1900.....r355 U25mal
Regulations and decisions pertaining to the uniform of the army of the United States. 1897.....r355 U25re
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- UNITED STATES—Signal office.
Property and general regulations of the signal corps. 1898..r355 U25p
- UNITED STATES—Subsistence department, Army.
Handbook of subsistence stores for use in the army. 1896..r355 U25h
How to feed an army; published by authority of the secretary of war for use in the army of the United States. 1901...r355 U25ho
Reports, by the various commissary officers who served during the Civil war, in response to a circular issued at the close of the war, "requesting information concerning the duties which they had performed, the methods adopted in executing the same, and any recommendations they might see fit to make."
Manual for army cooks. 1896.....r355 U25ml
- UNITED STATES—Surgeon-general's office.
Drill regulations for the hospital corps, United States army. 1896r355 U25d
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Infantry & rifle tactics. 1861.....r355 U25
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 No more published.
 VERDY du VERNOIS, Julius von.
 With the royal headquarters in 1870-71. 1897. (Wolseley
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 The author of the volume is a well known German writer on military
 subjects and a member of the Prussian general staff. He was in
 constant personal contact with the great leaders of the Franco-Prus-
 sian war, and his book is historically valuable and interesting be-
 cause it was written from the inside, and reveals the view of the war
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 WAGNER, Arthur Lockwood.
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 from a small escort of light cavalry to a full division of infantry and
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 WELLINGTON, Arthur Wellesley, duke of.
 General orders in Portugal, Spain and France, 1809-1815.
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 War and policy; essays. 1900355 W72
 Contents: MILITARY HISTORY: The American civil war.—Gustavus
 Adolphus.—Valmy.—Scharnhorst.—The archduke Charles.—A forgot-
 ten war, between Denmark and Germany, 1848-1849.—The archduke
 Albrecht.—The defence of Plevna.—Nelson.—THE ART OF WAR: Military
 literature.—Evolution not revolution in modern warfare.—
 Moltke's tactical problems.—The character of modern war.—PROBLEMS
 OF POLICY: The Khyber pass.—Chitral.—Russia's strength.—Constan-
 tinople.—Helpless Europe.—NATIONAL DEFENCE: The command of
 an army.—The civilian minister.—Trifling with national defence.—
 The defence of London.—An enquiry concerning the nation and the
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YOUNGHUSBAND, George John.

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- BRIGGS, Sir John Henry.
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its own line, as any historical work ever did.' (*Edinburgh review*.) It is however, a chronicle rather than a history, and while it describes events in minute detail, makes little attempt to show their relation to each other or to the current course of politics or diplomacy. . . . A more serious fault is due to the strong national bias which affects the whole work. The facts, although related with scrupulous accuracy, not infrequently, especially in the case of the American war, convey a false impression." *Dictionary of national biography*.

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- Report of the central executive committee, with complete ac-
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1901-1902. [1881-1903.].....r361 B86
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With v.6 Lend-a-hand united with this periodical.
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GOLDIE, John.

The poor and their happiness; missions & mission philan-
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A very suggestive book. After twenty years of charitable work the
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thropy," by which he means philanthropy based on natural laws and
dispensed by individuals instead of by organizations, is the only hope
for the elevation of the poor. He believes that the number of impos-
tors created by the organized charities is greater than the number of
the deserving poor that they relieve. The last two chapters are most
practical in their suggestions for personal work among the poor.

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General exercises with list of officers and members, pro-
gramme and rules. 1894.....r362.5 I24
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Charity organisations. 1892. (Social science series.).....361 L75

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- PENNSYLVANIA, ASSOCIATION OF DIRECTORS OF
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 Brief history of the Widows' society of Bethlehem, compiled
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 of charities, comp. by Charles Moore.
 pt.2. Report.
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 of the District of Columbia, comp. by Charles Moore.

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- BURDETT, Sir Henry Charles.
 Hospitals and charities, [9th year-date], 1898-date. 1898-
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- PENNSYLVANIA—Public charities commission.
 Annual report (1st-date) of the Board of commissioners
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 lunacy is included.
- WESTERN PENNSYLVANIA HOSPITAL.
 Annual report of the managers, 1847/48-1900/01. v.1-49, in 9.
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 No reports were published for 1848/49, 1851/52, 1853/54-1854/55.
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- Rules and regulations of the twelfth ward department, 1872.
 1872r362 W56
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- Rules and regulations; with the act of incorporation, list of officers and physicians and surgeons. 1853r362 W56
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- BOSTON**—City hospital.
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- DIX**, Dorothea Lynde.
Memorial soliciting a state hospital for the insane, submitted to the legislature of Pennsylvania, Feb. 3, 1845. 1845..r365 P95 v.2
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- INTERNATIONAL CONGRESS OF CHARITIES, CORRECTION AND PHILANTHROPY**, Chicago, 1893.
Commitment, detention, care and treatment of the insane; ed. by G. A. Blumer and A. B. Richardson. 1894.....r362.2 I24
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- PENNSYLVANIA, MEDICAL SOCIETY**.
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- PHILADELPHIA, CITIZENS' COMMITTEE FOR THE RELIEF OF THE INSANE POOR**.
An appeal to the people of Pennsylvania on the subject of an asylum for the insane poor. 1838.....r365 P95 v.2
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362.4 Deaf and dumb. 362.5 Paupers

- PENNSYLVANIA**—Western Pennsylvania institution for the education of the deaf and dumb.
Report (1st date) of the board of trustees, 1877–date.
1878–date.....r362.4 P39
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362.7 Children. 362.8 Soldiers' homes

CHANCE, William.

Children under the poor law; their education, training and after-care, together with a criticism of the report of the departmental committee on metropolitan poor law schools. 1897.....362.7 C36

FOLKS, Homer.

Care of destitute, neglected and delinquent children. 1902.
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Annual report, 1877—date. 1877—date.....r362.7 P39
Previous to 1890 the reports were issued by the Superintendent of soldiers' orphans.
The report for 1874 is included in the Pennsylvania Executive documents, 1874, r328.74 P39e.

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Report submitting H. R. 10357, relating to management of National home for disabled volunteer soldiers, and report of investigation. Feb. 24, 1897. (54th cong. 2d sess. House. Report no. 3035.).....r362.8 U25

363 Political associations

MYERS, Gustavus.

History of Tammany hall. 1901.....363 M99
History of the famous New York city political organization from 1789 to 1900. Based upon records which the author says "show that Tammany has been, from the beginning, an evil force in politics."

PHILADELPHIA, UNION LEAGUE.

Chronicle, 1862-1902. 1902qr363 P49
A social and political club organized during the Civil war. Its stated objects were to promote and sustain absolute and unqualified loyalty to the government of the United States and to support its measures for the suppression of the Rebellion. This volume traces the history of the club from 1862 to 1902.

SPEED, Thomas.

The political club, Danville, Kentucky, 1786-1790; an account of an early Kentucky society, from the original papers.
1894. (Filson club. Publications.).....qr363 S74

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BARCLAY, James J.

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BARROWS, Samuel June, *comp.*

- Reformatory system in the United States; reports pre-
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BECKE, Louis, *ed.*

- Old convict days. 1899.364 B36
Autobiographical account of a convict's life in Tasmania about the mid-
dle of the century, contributed by him to a Sidney paper, after he
had worked his way to a position of respectability. An excellent
picture of prison methods of the time.

BERREY, R.J.Power-

- Bye-ways of crime; with some stories from the Black museum.
1899.364 B45

BOIES, Henry Martyn.

- Science of penology; the defence of society against crime. 1901.364 B59

BOOTH, Mrs Ballington.

- Branded; a monograph on prison work. 1897.364 B63
A plea for the assistance of discharged convicts.

DRÄHMS, August.

- The criminal; his personnel and environment. 1900.364 D78
List of works upon criminology in English, p.391-394.

DU CANE, Sir Edmund Frederick.

- Punishment and prevention of crime. 1885. (English
citizen series.)364 D86

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An interesting discussion as to the true end of education. The author's ideal is the attainment of a harmony which may be described in a word as "equanimity." Each individual is to be brought into such a condition of calm by attention to his inner being that all the events of his life shall prove of spiritual value to him.

ELSLANDER, J.

L'éducation au point de vue sociologique. 1898.....370.1 E55

Contents: L'éducation au point de vue sociologique. — L'éducation moderne.—L'éducation rationnelle.

FELKIN, Henry M. & Mrs Emmie.

Introduction to Herbart's Science and practice of education. 1895370.1 F33

FOUILLÉE, Alfred Jules Émile.

Education from a national standpoint; tr. and ed. by W. J.

Greenstreet. 1897. (International education series.).....370.1 F82

A very valuable discussion of the fundamental principles of education, and an able and eloquent advocacy of the claims of literature to the chief place in the curriculum.

GUYAU, Marie Jean.

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Biographical sketch, p.11-15.

An eloquent and valuable book by one of the most remarkable of recent French philosophers and poets, with an introduction by Mr G. F. Stout. It treats education from the point of view of the development of the race, and is full of suggestion.

HARRIS, William Torrey.

Theory of education. 1893. (School room classics.).....370.1 H29

HERBERT, Johann Friedrich.

Letters and lectures on education; tr. fr. the German by H. M.

& Emmie Felkin. 1898.....370.1 H451

List of the German editions of Herbart's works, p.13-14.

At the time these letters were written, Herbart was engaged as tutor to three boys of different age and capacity. His attention was gradually concentrated upon problems of education, and the germs of many of his later theories were formed during this period. The lectures are on: The basis of education; Outlines of the general science

of education; and, On special branches of education.

Science of education. 1895.....370.I H45
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 p.1-23.

HOLMAN, Henry.

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 logical foundations. 1896. 2.....370.I H73
 Bibliography, p.523-524.
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 telligible outline of education, as a science only, and at the same time
 to suggest, but not to discuss, some of its deeper and more philosophic
 aspects." *Preface.*

LANG, Ossian Herbert, *ed.*

Educational creeds of the 19th century. 1898.....370.I L23
 Statements, by various American educators, of their educational ideals.

LANG, Ossian Herbert.

Rousseau and his "Émile." 1893370.I L23r

LAURIE, Simon Somerville.

Institutes of education, comprising an introduction to rational
 psychology. 1892370.I L37i
 A handbook for students of the philosophy of educational methods.
 John Amos Comenius, bishop of the Moravians; his life
 and educational works. 1892.....370.I L37
 "Bibliography of the educational works of Comenius," p.227-260.

McMURRY, Charles Alexander.

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 bart. 1898.....370.I M21
 "Books of reference," p.223-224.

MANSFIELD, Edward Deering.

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MONTAIGNE, Michel Eyquem de.

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PAYNE, Joseph.

Lectures on the science and art of education, with other lec-
 tures. 1890.....370.I P33

Other lectures: Educational methods.—Principles of the science of edu-
 cation.—Theories of teaching with their corresponding practice.—The
 importance of the training of the teacher.—The true foundation of
 science teaching.—Pestalozzi; the influence of his principles on ele-
 mentary education.—Froebel and the kindergarten system of education.
 Life of Joseph Payne, p.14-19.

"The work of an able, enthusiastic teacher and a close student of edu-
 cation. Sets forth the principles of teaching as well as the art.
 Shows how Nature teaches and the defects of her method. States
 the essentials of good methods. Finds a basis for all method in the
 proposition that learning is self-teaching. Lays stress upon action
 and things as factors contributing greatly to the pupil's mental
 development. A most stimulating book for the teacher." *Edward R.*
Shaw.

Lectures on the science and art of education, with other lec-
 tures and essays. 1883.....370.I P33l

Other lectures and essays: Principles of the science of education.—The
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 tance of the training of the teacher.—Theories of teaching, with their
 corresponding practice.—The science and art of education.—The true
 foundation of science teaching.—A preface and supplement to an essay
 "On the culture of the observing powers of children," by E. A. You-
 mans.—The curriculum of modern education, and the respective claims
 of classics and science to be represented in it considered.—On the im-
 portance and necessity of improving our ordinary methods of school

instruction.—On the past, present, and future of the College of preceptors.—Proposal for the endowment of a professorship of the science and art of education in connection with the College of preceptors.—A compendious exposition of Jacotot's system of education.

List of Mr Payne's published works, p.11-12.

List of books on education, p.89-93.

Science and art of education, and Principles of the science of education. 1876370.I P33s

PLATO.

Education of the young in the Republic of Plato; tr. into English with notes and introduction, by Bernard Bosanquet. 1900.....370.I P68

PUTNAM, Daniel.

Manual of pedagogics. 1898.....370.I P99
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RADESTOCK, Paul.

Habit and its importance in education; an essay in pedagogical psychology. 1897.....370.I R13

RICHTER, Jean Paul Friedrich, (*pseud.* Jean Paul).

Levana; or, The doctrine of education. 1890.....370.I R42
Biography and autobiography, p.1-66.

ROARK, Ruric Nevel

Psychology in education. 1895.....370.I R53

ROSENKRANZ, Johann Karl Friedrich.

Philosophy of education. 1893. (International education series.)370.I R72

The author was for many years professor of philosophy at Königsberg, and wrote extensively on philosophy and literature. This work, which on its appearance made an epoch in the treatment of educational theory in Germany, was originally translated for the Journal of speculative philosophy, but in this edition has been so revised as to adapt it to the needs of readers not trained in philosophy. After discussing the general idea of education, including its nature, forms and limits; he considers physical and intellectual education, and the training of the will, while under "education in its particular systems" he takes up the national, theocratic and humanitarian or Christian systems.

ROUSSEAU, Jean Jacques.

Émile; or, Treatise on education. 1893. (International education series.)370.I R77

Though some of his schemes are visionary, some are admirable. Voltaire says: "There are fifty pages of the 'Émile' that should be bound in velvet and gold."

Émile; ou, De l'éducation. 1894.....370.I R77e

SPENCER, Herbert.

Education. 1893.....370.I S74

"Discusses, What knowledge is of most worth, Intellectual education, Moral education, and Physical education. The chapter on intellectual education is the most important for its elucidation of the principles of education and as showing their application." *Edward R. Shaw.*

TATE, Thomas.

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VINCENT, George Edgar.

The social mind and education. 1897.....370.I V34

Bibliography, p.147-152.

KIDDLE, Henry, & Schem, A.J. *ed.*

Cyclopædia of education. 1883.....qr370.3 K24

- SONNENSCHEIN'S cyclopaedia of education; ed. by A. E. Fletcher. 1892.r370.3 S69
Bibliography, p.529-562.

370.4 Essays

ASPECTS of modern study; university extension addresses.

1895370.4 A83

Contents: The evolution of university extension as a part of popular education, by Lord Playfair.—The future of university extension in London, by Canon Browne.—Hearing, reading and thinking, by G. J. Goschen.—The study of literature, by John Morley.—Scientific study, by Sir James Paget.—Some lessons of antiquity, by Max Müller.—The application of the historical method to economic science, by the duke of Argyll.—Ideals, by Dr Westcott.—The influence of the Greek mind on modern life, by Prof. Jebb.

BAKER, James Hutchins.

Education and life; papers and addresses. 1900.370.4 B17

Contents: Heritage of the scholar.—Plato's philosophy of education and life.—Secondary education; a review.—Educational values.—Power as related to knowledge.—Moral training.—Can virtue be taught?—College and university.—University ideals.—General education practical.—The modern gospel of work.—The psychology of faith.—Evolution of a personal ideal.—The Greek virtues in modern application.—The student as citizen.—Optimism and interest.—The ethical and æsthetic elements in education.—Progress as realization.

BRIGGS, LeBaron Russell.

School, college and character. 1901.370.4 B74

Contents: Fathers, mothers and freshmen.—Some old-fashioned doubts about new-fashioned education.—College honor.—Some aspects of grammar-school training.—The transition from school to college.

The first four of these essays appeared in the Atlantic monthly.

BUTLER, Nicholas Murray.

Meaning of education, and other essays and addresses. 1898.370.4 B97

Other essays: What knowledge is of most worth?—Is there a new education?—Democracy and education.—The American college and the American university.—The function of the secondary school.—The reform of secondary education in the United States.

DUTTON, Samuel Train.

Social phases of education in the school and the home. 1899.370.4 D95

ELIOT, Charles William.

Educational reform; essays and addresses. 1898.370.4 E47

FITCH, Sir Joshua Girling.

Educational aims and methods. 1900.370.4 F55

Contents: Methods of instruction as illustrated in the Bible.—Socrates and his methods of teaching.—Evolution of character.—Training of the reason.—Hand work and head work.—Endowments and their influence on education.—Ascham and the schools of the renaissance.—Teachers' institutes and conventions in America.—Edward Thring.—The university extension movement, and its relation to schools.—Joseph Lancaster.—Pestalozzi.—The Sunday school of the future.—Women and universities.—The French leaving certificate.

HANUS, Paul Henry.

Educational aims and educational values. 1899.370.4 H24

Contents: Educational aims and educational values.—A recent tendency in secondary education examined.—Attempted improvements in the course of study.—What should the modern secondary school aim to accomplish?—Secondary education as a unifying force in American life.—The preparation of the high-school teacher of mathematics.—The study of education at Harvard university.—The permanent influence of Comenius.

HARRIS, William Torrey.

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- country; a paper read before the Department of superintendence of the National educational association, Feb. 1890. 1890. (Papers on school issues of the day.) 370.4 N15
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- Supplemental report to the report of the special committee on pedagogical and psychological observation; presented to the National educational association, July 1890. 1890. (Papers on school issues of the day.) 370.4 N15
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Studies in American education. 1895. 370.4 H31
Contents: Has the teacher a profession? — Reform in the grammar schools.—University participation; a substitute for university extension.—How to study history.—How to teach history in secondary schools.—The status of athletics in American colleges.
- HENDERSON, Charles Hanford.
Education and the larger life. 1902 370.4 H44
Contents: The point of view.—The social purpose.—The source of power.—Organic education. — Cause and effect. — Childhood.— Youth.—Holidays.—At the university.—The experimental life.—The agents of the social purpose.
Criticism of existing educational conditions and suggestions toward a better order. Mr Henderson strongly favors kindergartens, manual training schools, small classes, experimental and laboratory methods in teaching.
- HOPKINS, Mrs Louisa Parsons (Stone).
Spirit of the new education. 1892. 370.4 H78
- HUXLEY, Thomas Henry.
Science and education. 1894. 370.4 H98
Contents: Joseph Priestley.—Educational value of the natural history sciences.—Emancipation, black and white.—A liberal education, and where to find it.—Scientific education.—Science and culture.—Science and art in relation to education.—Universities, actual and ideal.—Address on university education.—Study of biology.—Elementary instruction in physiology.—Medical education.—The state and the medical profession.—Connection of the biological sciences with medicine.—School boards.—Technical education.—Address on behalf of the National association for the promotion of technical education.
- JEBB, Sir Richard Claverhouse.
Humanism in education; the Romanes lecture, 1899.
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- JORDAN, David Starr.
Care and culture of men; addresses on higher education.
1896 370.4 J43
- LOCKE, John.
Some thoughts concerning education. 1892. 370.4 L75
Biography of Locke, p.19-46.
- NORTHROP, Birdsey Grant.
Education abroad, and other papers. 1873. 370.4 N45
Contents: Should American youth be educated abroad?—Legal prevention of illiteracy.—Culture and knowledge.—The professional study.—Study and health.—Labor as an educator.—Education and industrial arts.—Education and invention.—Labor and capital theoretically harmonized.—Labor and capital practically harmonized.
- PAYNE, William Harold.
Contributions to the science of education. 370.4 P33
Seventeen essays on educational topics.
- QUICK, Robert Herbert.
Essays on educational reformers. 1892. (International edu-

- cation series.)370.4 Q29
Contents: Effects of the renaissance.—Renaissance tendencies.—Sturmius.—Schools of the Jesuits.—Rabelais.—Montaigne.—Ascham.—Mulcaster.—Ratichius.—Comenius.—The gentlemen of Port-Royal.—Some English writers before Locke.—Locke.—Rousseau.—Basedow and the Philanthropinum.—Pestalozzi.—Froebel.—Jacotot, a methodizer. — Herbert Spencer.—Thoughts and suggestions.—The schoolmaster's moral and religious influence.
- ROOPER, Thomas Godolphin.
 School and home life; essays and lectures on current educational topics.....370.4 R68
- SMITH, William Hawley.
 Walks and talks. 1893.....370.4 S66
 Suggestive talks about educational methods, written by an earnest child sympathizer who pleads for the democracy of public schools and the suiting of the education they offer to the practical needs of the children.
- SPALDING, John Lancaster.
 Education and the higher life. 1900370.4 S73e
Contents: Ideals.—Exercise of mind.—The love of excellence.—Culture and the spirit of the age.—Self-culture.—Growth and duty.—Right human life.—University education.
 The underlying thought in these essays is the cultivation of mind, of heart and of soul, not for its own sake, but for its influence in the world about us. Incidentally there is some thoughtful discussion of the value, in education, of the classics, of historical study, of the sciences, and a plea for an American literature.
- Opportunity, and other essays and addresses. 1900.....370.4 S73
Other essays: Woman and the higher education.—The university a nursery of the higher life.—The university and the teacher.—Goethe as educator.—The patriot.—Empire or republic.
- Thoughts and theories of life and education. 1897.....370.4 S73t
Contents: Thoughts and theories.—Books.—The teacher and the school.
- WALKER, Francis Amasa.
 Discussions in education. 1899.....370.4 W16
Contents: Technological education.—Manual education.—The teaching of arithmetic.—College problems.—A valedictory.
- WILSON, James Maurice.
 Three addresses to girls at school. 1890.....370.4 W76
Contents: Education.—High school education for girls.—Religion.

370.5 Periodicals

- AMERICAN journal of education; ed. by Henry Barnard; bi-monthly and quarterly, Aug. 1855–Dec. 1881. 31v.
 1855–81r370.5 A51
 Binder's title reads Barnard's American journal of education.
 No more published.
- EDUCATION; an international magazine; bimonthly. v.1–date.
 1881–dater370.5 E29
- EDUCATIONAL review; monthly. v.1–date. 1891–date..r370.5 E299
- JOURNAL of education; weekly. v.43–date. 1896–date.....qr370.5 J46
 v.1–12 published as the New England journal of education.
- PEDAGOGICAL seminary; an international record of educational literature, institutions and progress; ed. by G. S. Hall. v.1–date. 1891–date.....r370.5 P36
 Published irregularly.
- PUBLIC-SCHOOL journal; monthly, Sept. 1897–date. v.17–date. 1897–date.....r370.5 P9f
 v.18–date title reads School and home education.

- SCHOOL and college, devoted to secondary and higher education; ed. by R. G. Huling; monthly. v.1. 1892r370.5 S372
No more published.
- The SCHOOL journal; weekly. v.52-date. 1896-date.....qr370.5 S37

370.6 Associations

ASSOCIATION OF COLLEGES AND PREPARATORY SCHOOLS IN THE MIDDLE STATES AND MARYLAND.

- Proceedings of the annual convention (1st-date), 1893-date. 1894-date.....r370.6 C69
- The association was organized in 1887 as the College association of Pennsylvania. In June 1888 the name was changed to the College association of the Middle states and Maryland. In 1892 the name was again changed to the Association of colleges and preparatory schools in the Middle states and Maryland. For the Proceedings of these earlier bodies see their names.

ASSOCIATION OF COLLEGIATE ALUMNÆ.

- Publications. 2d ser. no.61; 3d ser. no.1-date. 1897-date...qr370.6 A84
- 2d ser. no.61 is entitled Contributions towards a bibliography of the higher education of women.
- 3d ser. no.3 has supplement Register of the Association of collegiate alumnae, 1899-1900; with constitution and by-laws; no.5 has similar supplement for 1901-1902.

CHICAGO—Educational commission, 1898.

- Report submitting recommendations in regard to the administration of the public school system of Chicago. 1899r370.6 C43
- Bibliographical references on city school systems, p.232-233.

COLLEGE ASSOCIATION OF PENNSYLVANIA.

- Proceedings of the convention (1st-2d), 1887-1888. 1887-88.....r370.6 C69 v.1
- Reorganized in 1888, as the College association of the Middle states and Maryland.
- Title of Proceedings of 1st convention reads "History of the organization, and proceedings," &c.

COLLEGE ASSOCIATION OF THE MIDDLE STATES AND MARYLAND.

- Proceedings of the annual convention (1st-4th), 1889-1892. 1890-92.....r370.6 C69 v.2
- Continued as the Association of colleges and preparatory schools in the Middle states and Maryland.

ENGLAND—Secondary education commission, 1894.

- Report of the commissioners. 9v. 1895.....r370.6 E64
- Commission was appointed to consider the best methods of establishing a well-organized system of secondary education in England. The report contains an historical statement as to previous legislation, a description of the state of things actually existing, an analysis of the evidence submitted to the commission, and recommendations submitted by them.

NATIONAL EDUCATIONAL ASSOCIATION.

- Addresses and journal of proceedings. 1873-date.....r370.6 N15
- The volume for 1893 contains Proceedings of the International congress of education of the World's Columbian exposition. 1878 no session.
- Index to Proceedings National teachers' association, 1857-1870 and the National educational association, 1871-1897. 1897.
- History of the association; list of meetings, officers, etc. 1892r370.6 N15r

NATIONAL HERBERT SOCIETY.

Publications; ed. by C. A. McMurry, 1895-1900. 5v. in 1.

- 1900 r370.6 N1553
- v.1. Pressing problems, by Charles DeGarmo.—Concentration, by Frank McMurry.—Culture-epochs, by C. C. Van Liew.—Course of study in primary grades, by Mrs L. B. McMurry.—Interest as related to will, by John Dewey.
- v.2. Isolation and unification, by E. E. White.—The culture-epochs, by H. T. Lukens and others.—Literature in the high school, by J. R. Colby.—Training for citizenship, by J. W. Jenks.
- v.3. Moral education, by John Dewey and others.—Training for citizenship, by E. J. James and others.—Observation and apperception, by Arnold Tompkins.—The application of the principles of Herbart to secondary schools, by Otto Frick and Dr Friedel.
- v.4. Knowledge, will and conduct, by James Seth.—Social function of United States history, by J. B. McMaster and others.—Social function of geography, by Spencer Trotter and W. M. Davis. — A course of study in geography for the common schools, by C. A. McMurry.
- v.5. Significance of the frontier in American history, by F. J. Turner.—Medieval and modern history in the high school, by J. H. Robinson.—The social aim in education, by I. W. Howerth.—Commercial education, by C. A. Herrick.
- Reorganized, Feb. 28, 1901, and continued under the title National society for the scientific study of education.

NATIONAL SOCIETY FOR THE SCIENTIFIC STUDY OF EDUCATION.

Yearbook, (1st-date). 1902-date.....r370.6 N1552

Continuation of the National Herbart society.

NATIONAL TEACHERS' ASSOCIATION.

Proceedings and lectures of the annual meeting (6th-7th, 9th), 1865-1866, 1869. 1865-69.....r370.6 N155

Proceedings of the 7th and 9th meetings contain also reports of the National association of school superintendents and of the American normal school association.

In 1870 the National teachers' association, National superintendents' association and the American normal school association united to form the National educational association.

370.7 Normal schools

BRAMWELL, Amy Blanche, & Hughes, H.M.

The training of teachers in the United States. 1894.....370.7 B69

Reports on a tour of investigation made by two English teachers to this country during the summer of 1893, for the purpose of studying the provisions made in the United States for the training of teachers.

WEST CHESTER STATE NORMAL SCHOOL.

Quarto-centennial history, 1871-1896. 1896.....r370.7 W56

UNITED STATES—Education bureau.

Educational exhibits and conventions at the World's industrial and cotton centennial exposition, New Orleans, 1884-85. 3v. in 1. 1886. (Special report.)r370.8 U25ed

Contents: Catalogue of exhibits.—Proceedings of the International congress of educators.—Proceedings of the Department of superintendence of the National educational association, and addresses delivered on education days.

370.9 History of education

BALFOUR, Graham.

Educational systems of Great Britain and Ireland. 1898...370.9 B19

BOONE, Richard Gause.

- Education in the United States, its history from the earliest settlements. 1894. (International education series.)...370.9 B63
 There is a bibliography at the end of each chapter.
 A brief history of the schools and colleges of colonial and Revolutionary times is followed by a consideration of school funds, school supervision, the training of teachers, recent colleges, professional and technical schools and the present provision for the education of the unfortunate and criminal classes. Part IV considers some current educational interests. This is practically the first history of education in the United States.

BROWNING, Oscar.

- Aspects of education; a study in the history of pedagogy.
 1892370.9 B81
Contents: Humanism. — Realism. — Naturalism. — The English public school.
 Appeared in *Science*, 1887-1888.
 Introduction to the history of educational theories.
 1888370.9 B81i
 "Authorities," p.3.

BUTLER, Nicholas Murray, *ed.*

- Education in the United States; a series of monographs prepared for the United States exhibit at the Paris exposition, 1900. 2v. 1900.....370.9 B97
The same. 2v. 1900.....1370.9 B97
 v.1. Educational organization and administration, by A. S. Draper.—Kindergarten education, by S. E. Blow.—Elementary education, by W. T. Harris.—Secondary education, by E. E. Brown.—The American college, by A. F. West.—The American university, by E. D. Perry.—Education of women, by M. C. Thomas.—Training of teachers, by B. A. Hinsdale.—School architecture and hygiene, by G. B. Morrison.
 v.2. Professional education, by J. R. Parsons.—Scientific, technical and engineering education, by T. C. Mendenhall.—Agricultural education, by C. W. Dabney.—Commercial education, by E. J. James.—Art and industrial education, by I. E. Clarke.—Education of defectives, by E. E. Allen.—Summer schools and university extension, by H. B. Adams.—Scientific societies and associations, by J. McK. Cattell.—Education of the negro, by B. T. Washington.—Education of the Indian, by W. N. Hailmann.
 Most of the articles include bibliographies.

CAPES, William Wolfe.

- University life in ancient Athens; being the substance of four Oxford lectures. 1877.....370.9 C18

COMPAYRÉ, Gabriel.

- History of pedagogy. 1885.....370.9 C73
 Select list of works, p.573-575.
 "Represents to my own mind very nearly the ideal of the treatise that is needed by the teaching profession." *W. H. Payne, in preface.*

DAVIDSON, Thomas.

- Aristotle and ancient educational ideals. 1897. (Great educators.)370.9 D29a
 Bibliography, p.249-251.
 Education of the Greek people and its influence on civilization, 1894. (International education series.).....370.9 D29
 The author says his purpose is "to show how the Greek people were gradually educated up to that stage of culture which made them teachers of the whole world, and what the effect of that teaching has been. Hence education, in its narrow, pedagogic sense, is presented but in the barest outline, while prominence is given to the different stages in the growth of the Greek political, ethical, and religious consciousness."

- History of education. 1900.....370.9 D29h
Contents: Savage, barbarian and civic education; The rise of intelligence.—Savage education.—Barbarian education.—Civic education.—Human education; Supernatural beginnings of humanism.—Mediæval education.—Modern education.
 Bibliography, p.277-282.
- EDGAR, John.
 History of early Scottish education. 1893.....370.9 E28
 Authorities, p.6-8.
- HAILMANN, William Nicholas.
 Twelve lectures on the history of pedagogy. 1874.....370.9 H14
- LANG, Ossian Herbert.
 Great teachers of four centuries; an outline history of the great movements and masters of the past four hundred years, that have shaped the theory and practice of the education of the present. 1893.....370.9 L23
 An exceedingly brief handbook intended for busy teachers.
- LEACH, Arthur Francis.
 English schools at the reformation, 1546-8. 1896.....370.9 L44
- MAHAFFY, John Pentland.
 Old Greek education.....370.9 M25
- MARK, H. Thiselton.
 Outline of the history of educational theories in England.
 1899370.9 M39
 List of books, p.136.
 Attempts to trace the development of a distinctly English educational theory from its origin in the 12th century.
- MONROE, Will Seymour.
 Comenius and the beginnings of educational reform. 1900.
 (Great educators.).....370.9 M83
 Annotated bibliography of the writings of Comenius, p.175-176, and of biographical and critical works, p.177-180.
 "Effort to trace the reform movement in education from Vives, Bacon, and Ratke to Comenius, who gave the movement its most significant force and direction; and from him to the later reformers,—Francke, Rousseau, Basedow, Pestalozzi, Fröbel, and Herbart." *Preface.*
- MUNROE, James Phinney.
 The educational ideal; an outline of its growth in modern times. 1896.....370.9 M96
Contents: Rabelais; the revolt against mediævalism.—Francis Bacon; the revolt against classicism.—Comenius; the revolt against feudalism.—Montaigne and Locke; the child has senses to be trained.—The Janesists and Fénelon; the child has a heart to be developed.—Rousseau; the child has a soul to be kept pure.—Pestalozzi and Froebel; senses, heart and soul must be educated together.—Women in education; education leads to and from the family, the home is its unit.
 Bibliography, p.233-247.
 The author has traced the steps through which the educational ideal has expanded "from the narrow pedantry of the schoolmen into an ever broader understanding of the true function of teaching."
- PAINTER, Franklin Verzelius Newton.
 History of education. 1895. (International education series.)370.9 P16
 A graphic but brief account of educational movements and reformers from early times down to the present.
- PAYNE, Joseph.
 Lectures on the history of education; with A visit to German schools. 1892370.9 P33
 Thirteen lectures on leading educators, of which ten deal with European writers since the revival of learning.

SEELEY, Levi.

History of education. 1899 370.9 S45

Bibliography, p.315-324.

Intended for a short text-book in normal schools or in preparing for any teachers' examination. The special plan of the book includes a study of the history and environment, of the internal, social, political and religious conditions of the people as necessary to any proper conception of their education.

SWETT, John.

American public schools; history and pedagogics. 1900.....370.9 S97

WICKERSHAM, James Pyle.

History of education in Pennsylvania from the time the

Swedes settled on the Delaware to the present day.

1886r370.9 W67

WILLIAMS, Samuel Gardner.

History of modern education. 1896.....370.9 W74

371 Teaching. Methods

ALLEN, Jerome.

Mind studies for young teachers. 1887.....371 A42

"Books for reference and study," p.6.

BALDWIN, Joseph.

Art of school management. 1892.....371 B19

Psychology applied to the art of teaching. 1897. (International education series.).....371 B19p

School management and school methods. 1897. (International education series.).....371 B19s

BARNETT, Percy Arthur.

Common sense in education and teaching; an introduction to practice. 1899371 B25c

Contents: Instruction as discipline.—Discipline of character.—Physical basis of education.—Genesis of curricula.—Manipulation of curricula.—Audible speech.—Literature and formal linguistic study.—Latin and Greek.—Mathematics and physical science.—Geography and history.—Warnings from history.—Making of the teacher.

Bibliography at the end of each chapter.

BARNETT, Percy Arthur, *ed.*

Teaching and organisation, with special reference to second-

ary schools; a manual of practice. 1897.....371 B25

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DE BRATH, Stanley, & Beatty, F.

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Contents: The nervous system.—Nervous energy.—Mental economics.

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GREENWOOD, James Mickleborough.

Principles of education practically applied. 1899.....371 G85
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HEWETT, Edwin Crawford.

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PAGE, David Perkins.
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 Biographical sketch of Page, p.11-18.
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SALMON, David.
 The art of teaching. 1898.....371 S17

SCHAEFFER, Nathan C.

Thinking and learning to think. 1900.....37I S29

SEARCH, Preston Willis.

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The author has had a long and varied career as teacher and superintendent of schools, and he here presents the opinions to which his experiences have led regarding school buildings, the scope of schools, course of study, the function of teachers, municipal difficulties, and the ethical basis.

THRING, Edward.

Theory and practice of teaching. 1894.....37I T42

As headmaster of Uppingham (Eng.) school, Edward Thring was one of the foremost pioneers in the modern methods of education. In this book, as in his work there, the object toward which he directs every effort is "education" as distinguished from instruction. In his whole consideration of the subject he insists most strongly that what is most important is not to gain knowledge, but to develop the power of the learner, and interest in the thing learned, and to teach mental independence and self reliance.

TOMPKINS, Arnold.

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- PINLOCHE, A.
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ventilation.—Williams, C. H. The use and care of the eyes, especially
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SNELL, Simeon.

Eyesight and school life. 1895.....371.7 S67

STONEROAD, Rebecca.

Gymnastic stories and plays for primary schools; physical
exercises for the first two years of school. 1898.....371.7 S88

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BAIRD, William Raimond.

Fraternity studies; a manual of information concerning the
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PLINIUS, der jüngste, *pseud.*

Naturgeschichte des deutschen studenten. 1842.....371.8 P69

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HOW to learn and earn; or, Half hours in some helpful schools.

1884j371.9 H84

Contents: Cadet life at West Point, by Mrs C. W. Raymond.—Perkins
institution and Massachusetts school for the blind, by E. E. Brown.—
Boston whittling schools, by E. E. Brown.—Philadelphia school of
reform, by Mrs Mary Wager-Fisher.—Among some sewing schools,
by E. E. Brown, Velma Wright, Mrs John Lillie.—Boston Chinese
mission school, by A. B. Harris.—Flower school at Corlear's Hook,
by Mrs E. E. Dickinson.—Lady Betty's cooking school, by Mrs John
Lillie.—The bad boys of France, by Mrs E. F. Pratt.—The children's
hour; a novel art school, by F. E. Fryatt.—At a day nursery, by A.
B. Harris.—Some Indian schools, by Mrs T. R. Jenness.—Training
school-ship Minnesota, by Mrs E. E. Dickinson.—Carlisle school for
Indian pupils, by Margaret Sidney.—The blind children's kindergarten,

by Emilie Poulsson.—My Arizona class, by Mrs J. B. Frémont.
Some of these papers were published in the Wide awake.

SHUTTLEWORTH, George Edward.

Mentally-deficient children; their treatment and training.

1900371.9 S56

THRASHER, Max Bennett.

Tuskegee; its story and its work. 1900.....371.9 T42

Account of the growth, the methods and work of Tuskegee normal and industrial institute for colored students in Alabama, and a sketch of Mr Booker T. Washington, its principal.

"The praise of Mr. Washington is extremely warm, but no warmer than is just...Benjamin Franklin's arrival in Philadelphia was not more interesting than his in Richmond, without a cent in his pocket, and afterward at the Hampton school where he was not regarded as a promising addition." *Nation*, 1900.

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WASHINGTON, Booker Taliaferro.

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ALDRICH, Mrs Aurette Roys.

Children, their models and critics. 1893.....372 A36

ARNOLD, Matthew.

Reports on elementary schools, 1852-1882; ed. by Sir Francis

Sandford. 1889.....372.9 A75

ARNOLD, Sarah Louise.

Waymarks for teachers, showing aims, principles and plans

of every day teaching. 1896.....372 A75

Contents: Nature study.—Language lessons.—Reading.—Spelling.—Geography.—Number.—Seat-work.—Talks on school subjects.

Each of the eight chapters discusses the plan and purpose of the study in question, supplementing with sample lessons and numerous original language productions by children. Every suggestion has been tested in the author's schoolroom experience.

BEEBE, Katherine.

First school year for primary workers. 1895.....372 B37

First appeared in the "Kindergarten magazine," 1894-1895.

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CURRIE, James.

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Contents: Art.—Music.—Textiles.—Botany.—Kindergarten.—Science.—Manual training.—History.—Curriculum.

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GEORGE, Minnie M.

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Suggestions to primary school teachers for a year's work, including nature and science study, literature, etc., and containing numerous stories, poems and songs.

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McMURRY, Charles Alexander.

Special method for literature and history in the common schools. 1899.....372 M21

MARTINEAU, Harriet.

Household education.....372 M43

Practical suggestions to parents on the physical, intellectual and moral training of children, based on the then (1848) advanced idea that freedom and reason are more effective than command and obedience.

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Contents: Study of children.—Training for parenthood.—Charm of the lily.—Priestly office.—Sand and the children.—Dumb devil.—Unwalled city.—Perilous times.—Deviser of mischiefs.—“Tell me a story.”—The authentic in kindergarten training.—Gospel of work.—Brotherhood of Saint Tumbler.—Kindergarten in neighborhood work. Essays, chiefly relating to the kindergarten, many of which first appeared in the Outlook and in Table talk.

WALKER, Louisa.

Varied occupations in string work, comprising knotting, netting, looping, plaiting and macramé. 1896.....372 W17

Intended for the use of primary and kindergarten teachers. The exercises are graded into three sections, suitable to the age and capacity of children varying from five to eight years of age.

WARNER, Francis.

The study of children and their school training. 1897.....372 W23
“The book has been written in the hope of aiding an advance in the

care of children and in the practice of educational methods, by promoting a more exact study and classification of the children to be cared for and trained." *Preface.*

WIGGIN, Mrs Kate Douglas, *afterward* Mrs Riggs.

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Other essays: Children's plays.—Children's playthings.—What shall children read?—Children's stories.—The relation of the kindergarten to social reform.—How shall we govern our children?—The magic of "together."—The relation of the kindergarten to the public school.—Other people's children.

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"A very readable collection of essays, literary rather than scientific."
Earl Barnes.

WILTSE, Sara Eliza.

The place of the story in early education, and other essays.

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Other essays: Study of children.—Children's habits.—Learning to use money.—Sound-blindness.—A study of adolescence.—Mental imagery of boys.

"A collection of sympathetic studies on songs and games, children's habits, etc., made by an intelligent interpreter of children's activities."
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372.2 Kindergarten

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Papers on Froebel's kindergarten, with suggestions on principles and methods of child culture in different countries. 1890. (Kindergarten and child culture papers.)

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Letters to a mother on the philosophy of Froebel. 1899.

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- FRÖBEL, Friedrich.
Education by development; the second part of The pedagogics of the kindergarten. 1890.....372.2 F96e
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Education of man. 1894. (International education series.)372.2 F96ed
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Mother-play and nursery songs. 1895.....q372.2 F96m
Fröbel said that whoever understood this book understood his philosophy. Two thoughts furnish the key to it: the importance of infancy as the germ stage of life, and the symbolism of all material things.
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The story of a sand-pile. 1897.....372.2 H17
Tells how an actual sand-pile taught some bright boys the elements of industrial processes, administration, law, geography, mathematics, etc.
- HARRISON, Elizabeth.
Christmas-tide. 1894372.2 H29
Contents: Christmas presents.—The place of toys in the education of a child.—How to celebrate Christmas.—The legend of Santa Claus.—Christmas stories.
- HERFORD, William H. *ed.*
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The first part is an abbreviation of Fröbel's "Education of man," consisting of translations of the more important portions, with connecting passages. The second part consists of brief passages, adapted from various writings of Fröbel, dealing with the method of conducting early education on kindergarten lines, with elucidatory comments by the editor.

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LYSCHINSKA, Mary J.

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MARENHOLTZ-BÜLOW, Bertha, freiin von.

Child and child-nature. 1895.....372.2 M37c
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A psychological discussion of child nature, followed by a clear and
valuable exposition of Fröbel's principles and their special applica-
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Hand work & head work, their relation to one another, and
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POULSSON, Emilie.

Finger plays for nursery and kindergarten. 1893.....372.2 P86
In the child's world; morning talks and stories for kinder-
gartens, primary schools and homes. 1899.....j372.2 P86
The same. 1899.....rj372.2 P86
Collection of short stories, entirely suited to little children, with sug-
gestions for additional reading on the subjects presented.

SHIRREFF, Emily.

The kinder-garten; principles of Fröbel's system and their
bearing on the education of women, also Remarks on the
higher education of women. 1897.....372.2 S55

SMITH, Eleanor.

Songs for little children; a collection of songs and games for kindergartens and primary schools. 2v. 1887-94.....q372.2 S64

SMITH, Nora Archibald.

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SNIDER, Denton Jaques.

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The same. New ed. 1895.....372.2 S67f2

Psychology of Froebel's play-gifts. 1900.....372.2 S67

WALKER, Gertrude, & Jenks, H.S. *comp.*

Songs and games for little ones. 1887.....q372.2 W16

A valuable collection, much used in kindergartens.

WIGGIN, Mrs Kate Douglas, *afterward* Mrs Riggs, *ed.*

Kindergarten. 1893.....372.2 W68

Contents: The relation of the kindergarten to social reform, by K. D. Wiggin.—The child and the race, by Mrs M. H. Peabody.—Seed, flower and fruit of the kindergarten, by A. W. Rollins.—A plea for the pure kindergarten, by J. B. Merrill.—The philosophy of the kindergarten, by Angeline Brooks.—An explanation of the kindergarten intended for mothers, by A. A. Chadwick.—The kindergarten in the mother's work, by Mrs E. P. Bond.—Outgrowths of kindergarten training, by Mrs A. B. Longstreet.

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(School-room classics.).....372.3 H29

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POLLARD, Rebecca S.

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ers. Founded on fourteen years' experience as a teacher.

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Little artist; a guide in water colors for kindergartners,
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Hints on home teaching. 1883.....373.1 A13

This plain and practical book, by the famous head master of the City of
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methods of teaching at home the ordinary subjects of education.
There are also valuable and suggestive chapters on moral training,
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BLACKIE, John Stuart.

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"In clearness and force, in temperance, in wisdom, and in elevation of feeling, a very remarkable book. It is rather by contagion with a fine nature than by direct argument that books aimed at changes of character accomplish their work. In this book, however, the cogency of presentation is no less remarkable than its persuasiveness." *Nation*, 1890.

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Comfort in dress.—Educational exercise.—The ideal gymnasium.

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MATSON, Henry.

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MUNGER, Theodore Thornton.

On the threshold. 1895.....374 M96

Contents: Purpose.—Friends and companions.—Manners.—Thrift.—

Self-reliance and courage.—Health.—Reading.—Amusements.—Purity.

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SMILES, Samuel.

Self-help374 S64

Biographical anecdotes pointing lessons of perseverance and good conduct.

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376 Education of women

BEALE, Dorothea, and *others*.

- Work and play in girls' schools, by three head mistresses. 1898376 B34
 On methods of teaching the various branches.

BRACKETT, Anna Callender, *ed*.

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Contents: Preface, by A. C. Brackett.—A plan for improving female education, by Mrs Emma Willard.—Female education, by Mrs E. C. Embury.—The collegiate education of girls, by Maria Mitchell.—A new knock at an old door, by Mrs L. G. Runkle.—A review of the higher education of women, by A. F. Palmer.—The teaching of history in academies and colleges, by L. M. Salmon.—The private school for girls, by A. C. Brackett.
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"Full information concerning the conditions on which women are admitted to the Universities, with lists of the professors and lecturers at each, the term times, rules for examinations, degrees that can be conferred on women, and in many cases the cost of board, etc. Directions how to get further information, if necessary, are added. . . A thoroughly practical guide for women who think of going abroad for advanced study, enabling them to decide where it is best to go for particular branches or courses, how to get admission to the selected University, and how to make the most profitable use of the time and labor afterwards." *Critic.*

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etc. Pt.2 describes the various class-rooms—the scientific, divinity,
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McCULLOCH, John Ramsay, *comp.*

Dictionary, practical, theoretical and historical, of commerce and commercial navigation. 1835.....r380 M14

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- Annual report (38th, 40th-date) of the trade and commerce of Chicago, for the year 1895, 1897-date. 1896-date....r381 C43

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dater382 U25e

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For contents see contents book, v.2, p.263; kept at the reference desk.

UNITED STATES—Foreign markets section.

Bulletin. no.1–date. 1895–date.....r382 U2533

For contents see contents book, v.2, p.237; kept at the reference desk.

UNITED STATES—Insular affairs division.

Monthly summary of commerce of Cuba, with comparative

tables of imports and exports, by articles and countries,

July–Dec. 1899, Mar. 1900–date. no.1–6, 9–date. 1900–

dateqr382 U2534m

Monthly summary of commerce of the island of Puerto Rico,

with comparative tables of imports and exports, by

articles and countries, July 1899–Apr. 1900. no.1–10.

1900qr382 U2534mo

Monthly summary of commerce of the Philippine islands,

with comparative tables of imports and exports, by arti-

cles and countries, July 1899–date. no.1–date. 1900–

dateqr382 U2534

UNITED STATES—Statistics bureau.

Annual report on the commerce and navigation of the

United States, 1837–1842, 1849–date. 1837–date.

(Treasury department.).....qr382 U253c

Title of later reports is "Foreign commerce and navigation of the United States."

Reports for 1837–42 and 1871 will be found in the sheep bound set of congressional documents numbered respectively, 330, 342, 369, 379, 399, 425 and 1512.

Pt.2 of reports for 1876, 1879–80, 1882, 1884–87, 1889–91 is on Internal commerce of the United States.

- Pt. 2 of reports for 1893-96 is on Immigration and passenger movement at ports of the United States.
- Imported merchandise entered for consumption in the United States during 1890-1893, with rates and amounts of duty collected. 1893.....qr382 U25im
- Monthly summary of commerce and finance; Sept. 1875-date. 1875-date.....qr382 U25m
- Titles vary, being at different times "Summary statement of imports and exports," "Monthly summary of imports and exports," "Monthly summary of finance and commerce," etc.
- Volumes from Sept. 1875 to May 1889 are incomplete.
- Quarterly report showing the imports and exports of the United States, for the four quarters of the year ending June 30, 1877-June 30, 1893. 1878-93.....r382 U25q
- The reports for the years ending June 30, 1879, 1880, 1883, and for the 1st-3d quarters of the year ending June 30, 1886, are wanting.
- Statistical tables exhibiting the commerce of the United States with European countries from 1790 to 1890. 1893.....r382 U25st
- Wool and the manufactures of wool; special report relating to the imports and exports of wool and its manufactures, also the tariff duties from 1789. 1887.....r382 U25w
- UNITED STATES—Treasury department.
- Digest of the existing commercial regulations of foreign countries with which the United States have intercourse. 3v. 1833-36.....r382 U253
- Statistics of the foreign and domestic commerce of the United States communicated in answer to a resolution of the Senate, March 12, 1863, embracing a historical review and analysis of foreign commerce from the beginning of the government. 1864.....r382 U253s

383 Post-office

See also United States post-office department, 353.4

- ARGENTINE REPUBLIC—Dirección general de correos y telégrafos.
- Antecedentes administrativos de correos y telégrafos, 1893-1894. 4v. 1894-95. (Publications.).....r383 A69r
- Códigos postal y telegráfico. 3v. 1895.....r383 A69
- CUSHING, Marshall.
- Story of our post office. 1893.....r383 C93
- LEECH, D.D.T. *comp.*
- Post office directory; also a comprehensive codification of the existing postal laws. 1856.....r383 L52
- UNITED STATES—Post-office department.
- Report of the United States postal committee on the condition and needs of the postal service in Cuba. 1899.....r383 U25

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TIFFANY, John Kerr, *comp.*

Philatelic library; a catalogue of stamp publications.

1874qr383.I T45

*This collection of books on philately consists chiefly of the library of the American philatelic association, donated in trust to the Carnegie library of Pittsburgh.

383.2 Handbooks

BAKER, W.H. *comp.*

Cyclopædia of philately. 1887.....r383.2 B17

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History and description of the Sydney view stamps of

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Reference list of the stamps of the Straits Settlements, sur-

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Reprinted with additions and corrections from the Philatelic journal of
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DIENA, Emilio.

I francobolli del ducato di Modena e delle provincie modenesi

e le marche del ducato stesso pei giornali esteri. 1894...r383.2 D57f

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Stamp collector's hand-book; a lexicon of terms and practical

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EVANS, Edward Benjamin, *comp.*

Philatelic handbook; a guide for collectors. 1885.....r383.2 E94

FIRTH, Oliver.

Postage stamps and their collection. 1897383.2 F52

HARDY, William John, & Bacon, E.D.

Stamp collector. 1898. (Collector series.)383.2 H26

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HORNER, W.E.V.

Stamped envelopes of the United States; revised and con-

tinued by E. B. Hanes. 1889.....qr383.2 H81

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zeichen-sammler. 1891 r383.2 L56

LOCKYER, Gilbert E. *comp.*

Colonial stamps, also those of Great Britain; lists of the

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geographical and other notes. 1887.....r383.2 L76

LONDON, PHILATELIC SOCIETY.

Postage stamps, envelopes and post cards of Australia and

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What philately teaches. 1899.....r383.2 L97

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Revised list of the postage stamps and stamped envelopes of

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SUPPANTSCHITSCH, Victor.

Grundzüge der briefmarkenkunde und des briefmarkensammeln.

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History of the postage stamps of the United States. 1887...r383.2 T45

WESTOBY, William A.S.

Adhesive postage stamps of Europe; a practical guide to their collection, identification and classification. 2v. 1898-

1900383.2 W57

v.1. Alsace to Ionian islands.

v.2. Italy to Württemberg.

383.3 Catalogues**ALBRECHT, R.F. & CO. *pub.***

Auction prices; an epitome of the prices realized for postage stamps at R. F. Albrecht & co.'s auction sales during four seasons, 1892-95. 1895.....qr383.3 A34

AMERICAN PHILATELIC PUBLISHING CO.

"Our catalogue;" the standard American catalogue of all the postal issues of the entire world, with the revenue stamps of the United States and Canada. 1894.....r383.3 A51

BROWN, Mount, *comp.*

Catalogue of British, colonial and foreign postage stamps.

1864r383.3 B79

CHAMPION, Adrien, *comp.*

Catalogue complet; descriptif de tous les timbres-poste, télégraphes et entiers, indiquant la valeur de chaque timbre. .r383.3 C35

DURBIN & HANES, *comp.*

Descriptive catalogue of the postage stamps and stamped envelopes of all nations. 15th, 17th-18th edition. 1885-

91.r383.3 D93

GIBBONS, (Stanley) & CO. *pub.*

Priced catalogue of stamps. 3v. 1897.....r383.3 G36

v.1. British empire.

v.2. Foreign countries.

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KOHL, Paul, *comp.*

Illustrierter katalog der freimarken von Europa, 1895.

1895r383.3 K36

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Complete standard catalogue of the postage stamps of the world, Jan. 1, 1895. 1895.....r383.3 M57

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v.1. Timbres-poste et télégraphes.

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MOSCHKAU, Alfred, *comp.*

Handbuch für postmarken-sammler; illustrirter katalog aller bis ende 1887 erschienenen postmarken, couverte und streifbänder, viele erläuternde anmerkungen, hinweise auf fälschungen und neudrucke und bei 2000 marken-abbildungen enthaltend. 1888. (Philatelistische bibliothek.).....r383.3 M93

Contains a supplement bringing the issues down to 1890.

ROGERS, Albert R. *comp.*

Priced catalogue of the market values, May 2, 1892, of the

- postage stamps of the United States, "government issues."
 1892r383.3 R61
- SCOTT STAMP AND COIN CO.
 Standard postage stamp catalogue, 1893-date. 53d edition-
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 60th edition, 1901, wanting.
- SENF BROS.
 Illustrierter postwertzeichen-katalog, 1893-1895. 1893-95..r383.3 S47
- SEVER & FRANCIS, *pub.*
 Catalogue of postage stamps, American and foreign, and
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- THORNHILL, W.B.
 Shanghai, with notes and publishers' prices. 1895. (Stanley
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 Lager-preisliste. no.5. 1900r383.3 W73
- WOLSIEFFER, P.M. *comp.*
 Our catalogue; the standard American catalogue of all postal
 issues of the world, with the revenue stamps of the United
 States and Canada. 3v. in 1. 1894r383.3 W84
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 20v. in 1. 1897-1900.....r383.3 W84w

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- AMERICAN journal of philately; monthly, Mar. 1868-Dec.
 1869, Sept. 3-Nov. 19, 1870, Jan. 1871-Oct. 1872, Jan.-Dec.
 1874, 1888-date. 1st series, v.1-5, 8; 2d series, v.1-date.
 1868-dater383.5 A512
 Publication discontinued from 1878 to 1888, when a new series begins.
 v.3 is incomplete, consisting of the weekly issues from Sept. 3 to Nov.
 19, 1870, only. v.5 lacks numbers for Nov. and Dec.
- AMERICAN philatelist; monthly, 1887-date. v.1-date. 1887-
 dateqr383.5 A51
 With v.8 this is issued annually, and title reads American philatelist
 and year book of the American philatelic association.
 Contains official circulars from Nov. 1886 to June 1887, no.1-4, and
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- AMERICAN stamp mercury; monthly, Oct. 1867-Mar. 1871.
 4v. in 2. 1867-71.....r383.5 A5122
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- BOSTON stamp book; the official organ of the Boston phila-
 telic society; monthly, May 1895-May 1898. v.1-3.
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- CAPITAL city philatelist; monthly, Dec. 1884-Sept. 1886. v.1-
 v.2, no.10, in 1. 1884-86.....r383.5 C18
 No more published.
- CARSON philatelist; monthly, Sept. 1885-Dec. 1886. 2v. in 1.
 1885-86qr383.5 C23
 No more published.
- COLLECTOR'S companion; issued monthly in the interest of
 philatelists, Jan. 1885-May 1886. 2v. in 1. 1885-86.....r383.5 C69
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- COLLECTOR'S ledger; monthly, Apr. 1888-Mar.1889. v.4.
1888-89.....r383.5 C695
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- CUMBERLAND collector; monthly, May 1886-Apr. 1887.
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- DETROIT philatelist; monthly, Apr. 1892-May 1894. v.I-3,
no.1, in I. 1892-94.....r383.5 D48
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- ELECTRIC philatelist; monthly, Feb. 1892-July 1894. v.I-
4, no.3, in I. 1892-94.....r383.5 E44
- EMPIRE state philatelist; monthly, Jan. 1885-June 1887.
3v. in I. 1885-87.....r383.5 E61
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- FILATELIC facts and fallacies; monthly, Oct. 1892-Sept. 1901.
9v. 1892-1901.....r383.5 F47
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- FOREIGN stamp collectors' news; monthly, Oct. 1883-Sept.
1884. v.I. 1883-84.....r383.5 F76
- HALIFAX philatelist; monthly. v.I. 1887.....r383.5 H16
- INTERNATIONAL collector; monthly, June 1887-June 1889.
v.I-5, no.1, in I. 1887-98.....r383.5 I24
- INTERNATIONAL PHILATELISTEN-VEREIN, Dresden.
Vertrauliche mittheilung, Jan. 15, 1899. no.21. 1899...qr383.5 P4944
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- INTERNATIONAL stamp; a semi-monthly in the interests of
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- KEYSTONE philatelic gazette; monthly. v.I-4. 1884-88....r383.5 K23
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7-v.3, no.6, title reads Stamp and coin gazette; v.3, no.7-v.4, title reads
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- KEYSTONE state philatelist; monthly, Jan-Oct. 1887. v.I,
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- LONG Island philatelist; a monthly magazine, Mar. 1892-Aug.
1893. v.I-2, no.6, in I. 1892-93.....qr383.5 L824
- MEKEEL'S weekly stamp news. v.I-date. 1891-date....qr383.5 M57w
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- MOHAWK standard, advertiser and chronicle; monthly, Mar.
1886-Feb. 1888. v.I-2, in I. 1886-88.....r383.5 M77
- NATIONAL PHILATELIC SOCIETY OF NEW YORK.
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- NATIONAL philatelist; a monthly magazine devoted to the
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- NEW ENGLAND philatelist; monthly, Nov. 1884-Oct. 1885.
v.I. 1884-85.....r383.5 N261
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v.1-4, no.6, in 1. 1892-95.....r383.5 N26
v.1, no.4-v.4, no.6 title reads The stamp.
- PHILATELIC chronicle and advertiser; monthly, Oct. 1891-
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- PHILATELIC magazine; monthly, Oct. 1885-June 1887. v.1-
2, no.9, in 1. 1885-87.....r383.5 P494
No more published.
- PHILATELIC monthly, Feb. 1875-Dec. 1898. v.1-24, in 3.
1875-98.....r383.5 P49
v.18-24 title reads Philatelic monthly and world.
- PHILATELIC record; monthly, Feb. 1879-Dec. 1891, 1895,
1897-1899. v.1-13, 17, 19-21. 1879-99.....r383.5 P4945
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v.19-21 title reads Philatelic record and stamp news.
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monthly, Dec. 1866-Dec. 1872. v.1-6. 1867-72.....r383.5 P4947
- Der PHILATELIST; organ für postwerthzeichenkunde; vereins-
zeitung des Internationalen philatelisten-vereins Dresden
und seiner sectionen; semi-monthly and monthly, 1888-
1889, 1897-1899. v.9-10, 18-20, in 2. 1888-99.....qr383.5 P4944
- POST office; a monthly journal for stamp collectors; Apr. 1891-
Dec. 1899. v.1-9. 1892-99r383.5 P84
- QUAKER city philatelist; monthly, Jan. 1886-July 1894. v.1-
9, no.7, in 2. 1886-94.....qr383.5 Q16
- STAMP; monthly, Mar. 1886-Apr. 1889. v.1-4, no.2, in 1.
1886-89r383.5 S7832
- STAMP collector; monthly, July-Aug. 1886. v.1, no.1-2.
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No more published.
Bound with Keystone state philatelist.
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- STAMP collector's monthly. v.1. 1872.....r383.5 S783
- STAMP world; monthly, Oct. 1880-Feb. 1887. 7v. in 1. 1881-
87r383.5 S78
No more published.
- STANLEY Gibbons monthly journal, July 1890-June 1900. v.1-
10. 1890-1900qr383.5 S787
- Le TIMBRE-poste; journal du collectionneur; monthly. v.1-12,
32, 37, in 10. 1863-99r383.5 T47
v.32, 37 title reads Le timbre-poste et le timbre fiscal.
- TRIFET, F.
Monthly circular, Jan. 1874-May 1879. 6v. in 1. 1874-79. r383.5 T73
No more published.
v.2-4, no.11 title reads F. Trifet's monthly stamp circular and price cata-
logue; v.4, no.12-v.6 title reads Monthly stamp circular.
- WEEKLY philatelic era. v.12-date. 1897-dateqr383.5 W427

WEEKLY philatelist, Nov. 16, 1892-Sept. 12, 1894. v.1-2, in 1.
1892-94.r383.5 W42

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DAVISON PUBLISHING CO.

Philatelic concordance and address book, also a directory of
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MEKEEL, (C. H.) STAMP AND PUBLISHING CO.

Stamp collectors' and dealers' address book. 1889.....r383.7 M57

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ROGERS, Albert R. *pub.*

American philatelic blue book; containing a list of stamp
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1893r383.7 R61

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AMERICAN PHILATELIC ASSOCIATION.

Catalogue of the loan exhibit of postage stamps to the United
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EARÉE, Robert Brisco.

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PHILO, *pseud.*

Bluffton stamp society; a story for young stamp collec-
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ROBIE, Lewis.

Stamp hunting. 1898.....r383.8 R54

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Historical reference list of the revenue stamps of the United
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385 Railroads

See also Railroad engineering, 625; and Transportation, 656

ADAMS, Charles Francis, *b.* 1835, & Henry.

Chapters of Erie, and other essays. 1886.....385 A21

Contents: A chapter of Erie, by C. F. Adams.—New York gold con-
spiracy, by Henry Adams.—An Erie raid, by C. F. Adams.—Capt.
John Smith, Bank of England restriction, British finance in 1816, by
Henry Adams.—Legal-tender act, by F. A. Walker and Henry Adams.
—The railroad system, by C. F. Adams.

BALTIMORE AND OHIO RAILROAD CO.

Memorial of the president and directors to Congress ask-
ing that a subscription, on the part of the United States,

- to the stock of the company, be authorized. [1829.]...r380 F12
Bound with other pamphlets.
- Report from the president and directors to the executive of
the state of Maryland, Dec. 20, 1831. 1831.....r380 F12
Bound with other pamphlets.
- BALTIMORE AND SUSQUEHANNA RAILROAD CO.**
Annual report (9th) of the president and directors to the
stockholders, Oct. 1836. 1836.....r380 D24
Bound with other pamphlets.
- CLEVELAND AND PITTSBURGH RAILROAD CO.**
Report of the chief engineer on the location and estimates
of cost of the Cleveland and Pittsburgh railroad; accom-
panied by the report of A. C. Twining, consulting engi-
neer, and the statement of the president and directors to
the stockholders of the company. 1849.....r380 U2532
The chief engineer making this report was George R. Eichbaum.
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- COWLES, James Lewis.**
General freight and passenger post. 1896.....385 C84
- DABNEY, Walter Davis.**
Public regulation of railways. 1889. (Questions of the day.)...385 D11
- DANA, William B. CO. pub.**
Hand-book of railroad securities, 1898; description, in-
come, prices, dividends. 1898.....r385 D19
- DANVILLE AND POTTSVILLE RAILROAD CO.**
Report of the chief engineer; with a report of the president
and managers to the stockholders, Jan. 1833. 1833.....r380 F12
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- DARBY, William.**
Atchafalaya railroad. 1836.....r380 D24
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- DIXON, Frank Haigh.**
State railroad control, with a history of its development in
Iowa. 1896. (Library of economics and politics.).....385 D64
The author's conclusion is that "a combined system of national and
state control, instead of weakening the power of state boards, would,
in fact, strengthen their authority by removing the embarrassments
under which they now suffer from the problems of interstate com-
merce with which they are constantly besieged."
- DOS PASSOS, John Randolph.**
Inter-state commerce act. 1887. (Questions of the day.)...385 D74
- EICHBAUM, George R.**
Report upon the surveys, location and estimates of the Cleve-
land and Pittsburgh railroad; to which is appended the
charter of the company. 1847.....r380 U2532
Bound with other pamphlets.
- EXPERIMENTS** on railroads in England; illustrative of the
safety, economy and speed of transportation, which this
system, as now improved, is capable of affording. 1829....r380 F12
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- FACTS** and arguments in favour of adopting railways in prefer-
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remarks on the subject of internal improvements. Ed. 3.

- 1825r380 F12
The same. Ed. 4. 1825.....r386 P39
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- HADLEY, Arthur Twining.**
 Railroad transportation. 1895.....385 H12
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Dial, 1885.
- HAINES, Henry Stevens.**
 American railway management; addresses delivered before the American railway association, and miscellaneous addresses and papers. 1897.....385 H15
- HENDRICK, Frank.**
 Railway control by commissions. 1900. (Questions of the day.)385 H44
 Chapters on railway regulation in France, Italy, Austria, Belgium, Germany, England and the United States; also on the railway regulation of the Massachusetts commission as a guide to American railway control, and on Switzerland and the state purchase of railways.
- HOLE, James.**
 National railways; an argument for state purchase. 1895.....385 H71
- INTERCONTINENTAL RAILWAY COMMISSION.**
 Minutes of meetings (1st-19th) held in Washington, December 4, 1890 to April 21, 1891. 1891.....qr385 I24
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- Preliminary report of the executive committee for the information of the several governments interested in establishing better means of intercommunication between the republics of the western hemisphere, submitted Jan. 31, 1893. 1893.....r385 I24p
- LARRABEE, William.**
 Railroad question. 1893.....385 L33
 Bibliography, p.13-15.
- LEWIS, George Henry.**
 National consolidation of the railways of the United States. 1893385 L67
- MILLION, John W.**
 State aid to railways in Missouri. 1896. (Chicago university. Economic studies, v.4.).....385 M69
- MITCHELL & HINMAN, pub.**
 Mitchell's compendium of the internal improvements of the United States, comprising general notices of important canals and rail-roads; with brief notice of works of internal improvement in Canada and Nova Scotia. 1835r385 M74
- MOBILE AND NEW ORLEANS RAILROAD CO.**
 Charter of the Mobile & New-Orleans railroad company, incorporated by act of Assembly [approved Dec. 1836]. 1836r380 D24
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- NEW YORK (state)**—Municipal ownership of the street and elevated railroads of cities, Committee to investigate the desirability of.

- Report and testimony transmitted to the Legislature, Feb. 11, 1896. 2v. 1896.....r385 N26
- NEW YORK (state)—Railroad commissioners, Board of.
 Annual report, 1858-64, 1866-68, 1871-74, 1877, 1879-90, 1892-date. 1859-date.....r385 N261
 Reports for 1893, pt.2; 1894, pt.1; 1897, pt.1, and 1898, pt.2, wanting.
 Report for 1883 is the 1st annual report made by the Railroad commissioners, before 1883 these reports were issued by the engineer and surveyor.
- NEW YORK (state)—Railroad commissioners, Board of, *comp.*
 General railroad laws of New York. 1901r385 N261g
- OFFICIAL railway list; a directory and handbook of useful information for railway men. 9th-13th year. 1890-94....r385 O16
- PENNSYLVANIA—Railroad riots in July 1877, Committee to investigate the.
 Report read in the Senate and House of representatives, May 23, 1878. 1878.....r385 P39
- PITTSBURGH—Citizens' committee.
 Address of a committee appointed July 20, 1831, on the subject of a railroad from the western termination of the Pennsylvania canal to the Ohio canal. 1832.....r380 F12
 Bound with other pamphlets.
- PITTSBURGH EAST END RAILROAD CO.
 Prospectus, 1883. 1883.....r385 P67
- POOR, Henry Varnum, *comp.*
 Directory of railway officials, 1887, 1890-93, 1895. 2d, 5th-8th, 18th annual number. 1887-95.....r385 P79d
 From 1888-1893 also published as a supplement to Poor's Manual of railroads.
 Manual of the railroads of the United States, 1889, 1892-93, 1895-1900, 1902. 22d, 25th-26th, 28th-33d, 35th annual number. 1889-1902.....r385 P79
- RAILWAY age; weekly. v.18-date. 1893-dateqr385 R15
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- RINGLER, A.H. *comp.*
 History of the North Hudson county railway, from its earliest days to the present time, 1893. 1893qr385 R47
- ROBERTS, William Milnor.
 Report on the preliminary surveys for the Bellefontaine & Indiana railroad company. 1850.....r380 U2532
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Method and results. 1894.....504 H98m

Contents: Autobiography.—On the advisableness of improving natural knowledge.—The progress of science.—The physical basis of life.—Descartes' "Discourse touching the method of using one's reason rightly and of seeking scientific truth."—On the hypothesis that animals are automata, and its history.—Administrative nihilism.—On the natural inequality of men.—Natural rights and political rights.—Government; anarchy or regimentation.

KELVIN, William Thomson, baron.

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Contents: Town geology.—On bio-geology.—The study of natural history.—Superstition.—Science.—Thoughts in a gravel pit.—How to study natural history.—The natural theology of the future.

LAING, Samuel.

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Contents: Solar heat.—What the universe is made of.—Climate.—The glacial period.—Tertiary man.—The missing link.—Animal magnetism and spiritualism.—The religion of the future: agnosticism and Christianity.—The historical element in the Gospels.—Scepticism and pessimism.—Creeds of great poets.—Armed Europe.—Taxation and finance.—Population and food.

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LONDON, SOUTH KENSINGTON MUSEUM.

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loan collection of scientific apparatus, 1876. 1876.504 L82

Contents: Roscoe, Prof. On John Dalton's apparatus, and what he did with it.—Guthrie, Prof. On cold.—Perry, S.J. On the methods employed, and the results obtained, in the late transit of Venus expedition.—Preece, W.H. On telegraphy.—Abney, Capt. On photographic printing processes.—Schuster, Dr. On the action of electric currents on each other.—Tyndall, Prof. On Faraday's apparatus. — Playfair, Lyon. On air and airs, as illustrated by the Magdeburg hemispheres, and Black's and Cavendish's balances.—Gladstone, Prof. On Davy's and Faraday's apparatus.—Main, R. On astronomical instruments.—Guthrie, Francis. On heat and work.—Stone, Dr. On modes of eliciting and reinforcing sound. — Walker, C.V. On galvanic time signals.—Rosse, Earl of. On reflecting telescopes.—Douglass, J.N. On the Great and Little Besses Rock light-houses.—Maskelyne, N.S. On what is a crystal?—Davis, Capt. On Arctic discovery in connection with the expedition now making its way to the North Pole.—Foster, G.C. On electricity as a motive power.—Davis, Capt. On Antarctic exploration. — M'Leod, Herbert. On some properties of gases.—Harrison, W. J. On local geology, with special reference to that of Leicestershire.—Hull, E. On the physical geology of Ireland as compared with that of Great Britain.—Barrett, Prof. On the analogy between light and sound.—Spottiswoode, W. On the polarisation of light.—Chisholm, H.W. On standard weights and measures.

PROCTOR, Richard Anthony.

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- v.2. Reflections on prayer and natural law.—Miracles and special providences.—On prayer as a form of physical energy.—Vitality.—Matter and force.—Scientific materialism.—An address to students on secular growth.—Scientific use of the imagination.—The Belfast address.—Apology for the Belfast address.—Rev. James Martineau and the Belfast address.—Fermentation and its bearings on surgery and medicine.—Spontaneous generation.—Science and man.—Professor Virchow and evolution.—The electric light.
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- Contents:* The Sabbath.—Goethe's "Farbenlehre."—Atoms, molecules and ether waves.—Count Rumford.—Louis Pasteur, his life and labours.—The rainbow and its congeners.—Address delivered at the Birbeck institution on Oct. 22, 1884.—Thomas Young.—Life in the Alps.—About common water.—Personal recollections of Thomas Carlyle.—On unveiling the statue of Thomas Carlyle.—On the origin, propagation and prevention of phthisis.—Old Alpine jottings.—A morning on Alp Lusen.

505 Periodicals

- AMERICAN journal of science and arts. v.1-date. 1819-date...r505 A51
 ———Index, v.1-49. 1847. (Being v.50.)
 Often called Silliman's journal.
- L'ANNÉE industrielle; découvertes scientifiques, et inventions nouvelles. v.11-15. 1897-1901.....r505 A6131
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- L'ANNÉE scientifique et industrielle, fondée par Louis Figuler;
 ed. by Émile Gautier, 1856-date. Première année-date. 1857-date.....r505 A613
- ANNUAL of scientific discovery; or, Year-book of facts in science and art (1st-21st), 1850-71. 1850-71.....r505 A615
 No more published.
 Bibliography at the end of each volume.
- BAIRD, Spencer Fullerton, and others, ed.
 Annual record (2d) of science and industry, 1872. 1873....r505 B16
 "References," p.624-627.
- BOSTON journal of chemistry; monthly. 36v. 1866-1902...qr505 B64
 v.18-29 title reads Popular science news and Boston journal of chemistry.
 v.31-36 title reads Popular science; or, Popular science news.
 v.30 wanting.
 Jan. 15, 1903 absorbed by the "American inventor."
- HARDWICKE'S science-gossip; monthly. 37v. 1866-1902..qr505 H25
 v.30-37 title reads Science gossip.
 No more published.
- INTELLECTUAL observer, review of natural history, microscopic research and recreative science; monthly.
 12v. 1862-68.....r505 I24
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- KNOWLEDGE**; an illustrated magazine of science; weekly and monthly, 1881—date. v.1—date. 1882—date.....qr505 K35
- MAGAZINE** of natural history and journal of zoology, botany, mineralogy, geology and meteorology, May 1828—Dec. 1838. v.1—11. 1829—38.....r505 M24
 May 1828—July 1834 published bimonthly.
 Sept. 1834—Dec. 1838 published monthly.
 v.10—11 are new series v.1—2.
 New series v.2 title reads Magazine of natural history.
 United in 1841 with Annals of natural history, which was published from 1838 to 1840, to form the Annals and magazine of natural history, r570.5 A612.
- NATURAL** science journal; monthly, March 1897. v.1, no.1. 1897r505 N158
 No more published.
- NATURE**; a weekly illustrated journal of science, Nov. 1869—date. v.1—date. 1870—date.....qr505 N15
- La NATURE**; revue des sciences et de leurs applications aux arts et à l'industrie; weekly. v.1—date. 1873—date.....qr505 N1581
 ———Table des matières, 1873—1882, v.1—19.
 ———Table des matières, 1883—1892, v.20—32.
 v.50—53 wanting.
- NEW** science review; quarterly, July 1894—Jan. 1896. v.1—2, no.3. 1894—96.....qr505 N26
 No more published.
- PHILOSOPHICAL** magazine, comprehending the branches of science, the liberal and fine arts, agriculture, manufactures and commerce; monthly. v.1—date. 1798—date.....r505 P52
 v.43—68 title reads Philosophical magazine and journal.
 v.69—79 title reads Philosophical magazine; or, Annals of chemistry, mathematics, astronomy, natural history and general science.
 v.80—95 title reads London and Edinburgh philosophical magazine and journal of science.
 v.96—date title reads London, Edinburgh and Dublin philosophical magazine and journal of science.
 v.78 contains general index for v.69—79.
 v.91 contains general index for v.80—91.
- POPULAR** science monthly. v.1—date. 1872—date.....r505 P81
 ———Index, v.1—40. 1893.
 v.48—57, no.1 title reads Appletons' popular science monthly.
- POPULAR** science monthly, supplement. 4v. in 3. 1878.....r505 P81s
- POPULAR** science news and Boston journal of chemistry; monthly, Jan. 1884—Dec. 1895, 1897—1902. v.18—29, 31—36. 1884—1902qr505 B64
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 v.31—36 title reads "Popular science; or, Popular science news."
 No more published.
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- POPULAR** science review; quarterly. 20v. 1862—81.....r505 P819
 No more published.
- QUARTERLY** journal of science. 22v. 1864—85.....r505 Q19
 v.16—22 title reads Journal of science.
 No more published.
- REVUE** générale des sciences pures et appliquées; semi-monthly. v.1—date. 1890—date.....qr505 R37
- SCIENCE**; weekly. v.1—date. 1883—date.....qr505 S41
 Discontinued from March 23, 1894 to Jan. 4, 1895.
- SCIENCE** abstracts, physics and electrical engineering; issued under the direction of the Institution of electrical engineers [and the] Physical society of London; monthly.

- v.1—date. 1898—date.....r505 S4162
 A continuation of the Abstracts of Physical papers from foreign sources,
 published by the Physical society of London.
- SCIENCE progress; a monthly review of current scientific in-
 vestigation, March 1894—Oct. 1898. 7v. 1894-98qr505 S4163
 Beginning with v.6 the periodical was published quarterly.
 No more published.
- SCIENCE record; a monthly magazine. v.2. 1883-84.....r505 S416
 v.1 appeared under the title Scientific and literary gossip.
- TIMBS, John, *comp.*
 Year-book of facts in science and art; the most important
 discoveries and improvements of the past year, 1869.
 1869r505 T47
- WISCONSIN UNIVERSITY.
 Bulletin; science series. v.1-2. 1896-1901r505 W81
 v.1. On the speed of liberation of iodine in solutions of hydrochloric
 acid, potassium chlorate, and potassium iodide, by Herman Schlundt.
 —On the quartz keratophyre and associated rocks of the north
 range of the Baraboo bluffs, by Samuel Weidman.—Studies in
 spherical and practical astronomy, by G. C. Comstock.—A contribu-
 tion to the mineralogy of Wisconsin, by W. H. Hobbs.—Analytic
 keys to the genera and species of North American mosses, by C.
 R. Barnes.
 v.2. Action of solutions on the sense of taste, by Louis Kahlenberg.—
 Aspects of mental economy, by M. V. O'Shea.—Contributions from
 the anatomical laboratory of the University of Wisconsin, by W. S.
 Miller.—Anomalous dispersion of cyanin, by C. E. Magnusson.—
 Theory of electrolytic dissociation as viewed in the light of facts
 recently ascertained, by Louis Kahlenberg.—On the dielectric
 constants of pure solvents, by Herman Schlundt.
- YALE scientific monthly. v.6—date. 1899—dater505 Y13
 Published by the senior class of the Sheffield scientific school, Yale
 university.

506 Societies

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Proceedings (1st meeting—date), 1848—date. 1849—date.....r506 A51

AMERICAN PHILOSOPHICAL SOCIETY.

Proceedings, 1869—date. v.11—date. 1869—date.....r506 A512

BERLIN, KÖNIGLICHE AKADEMIE DER WISSEN- SCHAFTEN.

Abhandlungen, 1804—date. v.1—date. 1815—date.....qr506 B45

v.16 contains a supplement in 3 parts, entitled Ueber die Kawi-sprache
 auf der insel Java, von Wilhelm von Humboldt.

v.25 contains 2 supplements, entitled Die gesetze der doppelbrechung
 des lichts in comprimierten oder ungleichförmig erwärmten unkrystal-
 linischen körnern, von F. E. Neumann, and Darstellung der bevölk-
 erungs-, geburts-, ehe- und sterblichkeits-verhältnisse, von J. G.
 Hoffmann.

v.38 contains 2 supplements, entitled Darstellung der wärme-erscheinun-
 gen durch fünftägige mittel von 1782 bis 1855, mit besonderer berück-
 sichtigung strenger winter, von H. W. Dove, and Die spuren der az-
 tekischen sprache im nördlichen Mexico und höheren amerikanischen
 norden, von J. C. E. Buschmann.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Report of the meeting (1st—date), 1831—date. 1833—date....r506 B75

—Index to the reports and transactions of the association, 1861-
 1890.

CHICAGO ACADEMY OF SCIENCES.

Bulletin. v.1-date. 1883-date.....r506 C43
Published irregularly.

Bulletin of the geological and natural history survey. no.1—
date. 1896-dater506 C43b
no.1-2. Calkins, W. W. The lichen-flora of Chicago and vicinity.—
Leverett, Frank. The pleistocene features and deposits of the Chicago
area.
no.3. Baker, F. C. The mollusca of the Chicago area. 2 pts.
no.4. Weller, Stuart. The paleontology of the Niagaran limestone in
the Chicago area, pt.1.
no.5. Crook, A. R. The mineralogy of the Chicago area.

DUHAMEL, Jean Baptiste.

Regiæ scientiarum academiæ historia, in qua præter ipsius
academiæ originem & progressus, variasque disserta-
tiones & observationes per triginta quatuor annos
factas, quam plurima experimenta & inventa, cum
physica, tum mathematica in certum ordinem digerun-
tur. 1701.....qr506 D88

GOODE, George Brown, ed.

The Smithsonian institution, 1846-1896; the history of its first
half century. 1897.....qr506 G62
Smithsonian publication, no. 1086.

GRANVILLE, Augustus Bozzi.

The Royal society in the 19th century; a statistical summary of
its labours. 1836.....r506 G79

HILL, Sir John.

Review of the works of the Royal society of London, con-
taining animadversions on such of the papers as deserve
particular observation. 1751².....qr506 H55

INSTITUT DE FRANCE—Académie des sciences.

Comptes rendus hebdomadaires des séances de l'Académie des
sciences. v.1-date. 1835-date.....qr506 I24
——Table générale, v.1-31. 1855.
——Table générale, v.32-61. 1870.
——Table générale, v.62-91. 1888.

The same; supplément. v.1-2. 1856-61.....qr506 I24s

Histoire de l'Académie royale des sciences, avec les mémoires
de mathématique & de physique, 1699-1790. 92v. in 93.

1702-1797qr506 I24h

v.92, 1790, title reads Mémoires de l'Académie des sciences. The year
1772 has 2v.

Continued as Mémoires de l'Institut national des sciences et arts.

Histoire de l'Académie royale des sciences, depuis son étab-
lissement en 1666 jusqu'à 1699. 11v. in 14. 1729-34....qr506 I24m
v.3-11 title reads Mémoires de l'Académie royale des sciences.

Mémoires, 1816-date. v.1-date. 1818-dateqr506 I24h3

Continuation of Mémoires de l'Institut national des sciences et arts;
sciences mathématiques et physiques.

v.41-date called 2me série.

Changes in title to correspond with changes in form of government.

These Mémoires are indexed in the Royal society's Catalogue of scien-
tific papers, q1016.5 R81.

——Tables générales des travaux contenus dans les Mémoires; 1re
série, v.1-14 (1795-1815); 2me série, v.1-40 (1816-1878), qr506 I24h2

Mémoires de l'Institut national des sciences et arts; sciences
mathématiques et physiques, 1795-1815. 14v. 1798-1818..qr506 I24h2
v.6 title reads Mémoires de l'Institut des sciences, lettres et arts; v.7-14

title reads *Mémoires de la classe des sciences, mathématiques et physiques de l'Institut national de France.*

Continued as *Mémoires de l'Académie royale des sciences de l'Institut de France.*

These *Mémoires* are indexed in the Royal society's Catalogue of scientific papers, qro16.5 R81.

—Tables générales des travaux contenus dans les *Mémoires*; 1re série, v.1-14 (1795-1815); 2me série, v.1-40 (1816-1878).

Mémoires de mathématique et de physique, présentés par divers sçavans & lus dans ses assemblées. 11v. 1750-86qr506 I24me
For contents see Catalogue of the Boston Athenæum, v.4, p.2236, qro19.1 B64.

Mémoires, présentés à l'Institut des sciences, lettres et arts par divers savans et lus dans ses assemblées; sciences mathématiques et physiques. 2v. 1806-11qr506 I24me2

The same; présentés par divers savans à l'Académie royale des sciences de l'Institut de France; sciences mathématiques et physiques. 2me sér. v.1-31. 1827-94qr506 I24me3

—Tables générales; 1re sér., v.1-2 (1806-1811), 2me sér., v.1-25 (1827-1877). 1881, qr506 I24me2.

These *Mémoires* are indexed in the Royal society's Catalogue of scientific papers, qro16.5 R81.

Nouvelle table des articles contenus dans les volumes de l'Académie royale des sciences de Paris, 1666-1770, dans ceux des arts et métiers publiés par cette académie & dans la collection académique. 4v. 1775-76qr506 I24n
v.1. A-D. v.2. E-L. v.3. M-S. v.4. T-Z.

Recueil des pièces qui ont remporté les prix de l'Académie royale des sciences, 1720-1772. 9v. 1752-77qr506 I24r
Binder's title reads *Prix de l'Académie.*
For contents see Catalogue of the Boston Athenæum, v.4, p.2238, qro19.1 B64.

Table alphabétique des matières contenues dans l'Histoire & les Mémoires de l'Académie royale des sciences, publiée par son ordre et dressée par M. Godin, 1666-1790. 10v. 1734-1809qr506 I24t
v.1. 1666-1698. v.2. 1699-1710. v.3. 1711-1720.
v.4. 1721-1730. v.5. 1731-1740. v.6. 1741-1750.
v.7. 1751-1760. v.8. 1761-1770. v.9. 1771-1780.
v.10. 1781-1790.
v.5-10 title reads *Table générale.*
v.5-9 ed. by P. Demours, v.10 by L. Cotte.

MICHIGAN ACADEMY OF SCIENCE.

Report (1st), covering the time from the organization of the academy in 1894 to June 1899; prepared by W. B. Barrows. 1900r506 M66
"List of members," p.155-159.

NATIONAL ACADEMY OF SCIENCES.

Memoirs. v.2-date. 1884-dateqr506 N15

NEW YORK (city) ACADEMY OF SCIENCES.

Annals, 1877-1895. v.1-8. 1879-95r506 N261a
Until Jan. 1876 the name of the Academy was the Lyceum of natural history in the city of New York.

Transactions. v.1-date. 1882-dater506 N261
Until Jan. 1876 the name of the Academy was the Lyceum of natural history in the city of New York.

NEW YORK (city), LYCEUM OF NATURAL HISTORY.

Proceedings, Apr. 1870-June 1874. v.1-2, in 1r506 N26
In Jan. 1876 the name was changed to New York academy of sciences.

PENNSYLVANIA UNIVERSITY — Free museum of science and art.

Bulletin, May 1897-date. v.1-date. 1897-dater506 P39
Published irregularly.

RHEES, William Jones, *comp.*

Smithsonian institution; documents relative to its origin and history, 1835-1899. 2v. 1901. (In Smithsonian institution. Miscellaneous collections, v.42-43.)r506 S66m v.42-43

v.1. 1835-1887.

v.2. 1887-1899.

ROYAL SOCIETY OF EDINBURGH.

Transactions, 1783-date. v.1-date. 1788-date.....qr506 R813
——General index, 1783-1888, v.1-34. 1890.

ROYAL SOCIETY OF LONDON.

Authentic narrative of the dissensions and debates in the society; containing the speeches at large of Dr Horsley, Dr Maskelyne, Mr Maseres, Mr Poore, Mr Glenie, Mr Watson and Mr Maty. 1784.....r506 R81au

Philosophical transactions. v.91-date. 1801-date.....qr506 R81p

——Index, v.71-110. 1821.

v.168 is an extra volume, being An account of the petrological, botanical and zoological collections made in Kerguelen's Land and Rodriguez during the transit of Venus expeditions, 1874-75.

v.188 contains Rücker and Thorpe's Magnetic survey of the British Isles for the epoch Jan. 1, 1891.

Philosophical transactions and collections, abridg'd and dispos'd under general heads; 1665-1720. 5v. 1705-1721.....qr506 R81

v.1-3. To the end of 1700; by John Lowthorp.

v.4-5. 1701-1720; by Benjamin Motte.

Philosophical transactions, from 1665 to 1800; abridged, with notes and biographic illustrations, by Charles Hutton, George Shaw and Richard Pearson. 18v. 1809.....qr506 R81a

Proceedings, 1800-date. v.1-date. 1832-date.....r506 R81pr

v.1-6 title reads "Abstracts of the papers printed in the Philosophical transactions of the Royal society of London."

SMITHSONIAN INSTITUTION.

Annual report (8th-date) of the board of regents, 1853-date. 1854-date.....r506 S66

The eighth annual report containing the report for 1853, embraces the essential portions of the preceding seven reports, which were originally published in pamphlet form.

From 1884 the report is in 2 volumes, v.2 being the report of the United States national museum.

1st-35th reports, 1846-80, are indexed in Catalogue of publications of the Smithsonian institution (1846-1882), r506 S66ca.

Contributions to knowledge. v.1-date. 1848-date.....qr506 S66c

For contents see contents book, p.48; kept at the reference desk.

v.1-23, 1848-81, are indexed in Catalogue of publications of the Smithsonian institution (1846-1882), r506 S66ca.

Miscellaneous collections. v.1-date. 1862-date.....r506 S66m

For contents see contents book, p.148; kept at the reference desk.

v.10-12 wanting.

v.1-23, 1862-82, are indexed in Catalogue of publications of the Smithsonian institution (1846-1882), r506 S66ca.

THOMSON, Thomas.

History of the Royal society from its institution to the end of the eighteenth century. 1812.....qr506 T38

WASHINGTON, (D. C.), PHILOSOPHICAL SOCIETY.

- Bulletin, 1871-date. v.1-date. 1874-dater506 W27
 v.1-10 published by the Smithsonian institution in its Miscellaneous col-
 lections, r506 S66m. v.1-3 will be found in v.20, v.4-5 in v.25,
 and v.6-10 in v.33.
 v.10 of the Bulletin contains an index to v.1-10.

YEAR-book of the scientific and learned societies of Great

Britain and Ireland. 1st annual issue-date. 1884-date..r506 Y21

507 Study and teaching

BOSTON SOCIETY OF NATURAL HISTORY.

- Guides for science teaching. v.1-3. 1896-98.....507 B64
 v.1. Goodale, G.L. Concerning a few common plants.—Phenix, G.P.
 First lessons in chemistry.—Bowditch, H.P. Hints for teachers
 of physiology.—Hyatt, Alpheus. About pebbles.—Richards, Mrs
 E.H.S. First lessons on minerals.—Clapp, H.L. Thirty-six ob-
 servation lessons on common minerals.—Crosby, W.O. Common
 minerals and rocks.
 v.2. Agassiz, Mrs E.C. First lesson in natural history.—Hyatt, Al-
 pheus. Common hydroids, corals and echinoderms. Commercial
 and other sponges. The oyster, clam and other common mollusks.
 Worms and crustacea.
 v.3. Hyatt, Alpheus, & Arms, J.M. Insecta.

The same. 1896-98.....r507 B64

CRAMER, Frank.

The method of Darwin; a study in scientific method. 1896..507 C86

GOODE, George Brown.

- Origin of the national scientific and educational institutions
 of the United States. 1890r507 G62
 Reprinted from the Annual report of the American historical association,
 v.1, p.53-161.

GORE, George.

Art of scientific discovery. 1878.....507 G66

Museums

CARNEGIE INSTITUTE, Pittsburgh—Museum.

- Annals. v.1-date. 1901-date.....r507 C21a
 Annual report (1st-date) of the director, 1898-date. 1898-
 date. (Publications.).....r507 C21
 Memoirs. v.1-date. 1901-date.....qr507 C21m
 v.1. Diplodocus (Marsh); its osteology, taxonomy and probable habits,
 with a restoration of the skeleton, by J. B. Hatcher.—Oligocene
 canidæ, by J. B. Hatcher.
 Prize essay contest (1st-date), 1896-date. 1896-date.
 (Publications.).r507 C21p

FIELD COLUMBIAN MUSEUM.

- Annual report (1st-date) of the director, 1894/95-date.
 1895-date. (Publications; report series.).....r507 F45

LONDON, SOUTH KENSINGTON MUSEUM.

- Handbook to the special loan collection of scientific appar-
 atus, 1876.....r507 L82

MUSEUMS ASSOCIATION.

- Report of proceedings (1st-date), with the papers read at
 the annual general meeting, 1890-date. 1890-date.....r507 M98

NEW YORK (state)—Museum.

Annual report (41st-date) of the trustees, 1887-date.

1888-dateqr507 N26

Reports (1st-54th), 1847-1900, are indexed in Bulletin no.66 of the New York state museum, qr507 N26b.

This report contains the reports of the state geologist and paleontologist, the state botanist, and the state entomologist.

For partial contents see contents book, p.206; kept at the reference desk.

New York state museum was called State cabinet of natural history until 1871, and State museum of natural history until 1888.

The Reports on the state geological survey which were begun in 1837 are continued in the Reports and Bulletins of the Museum.

Bulletin, May 1887-date. v.1, no.1-date. 1888-date.....qr507 N26b

Bulletins no.1-69, 1887-1902, are indexed in Bulletin no.66.

v.1, no.1-6. Preliminary list of New York unionidæ, by W. B. Marshall.—Contributions to the botany of the state of New York, by C. H. Peck.—Building stone in the state of New York, by J. C. Smock.—Some New York minerals and their localities, by F. L. Nason.—The white grub of the May beetle, by J. A. Lintner.—Cut-worms, by J. A. Lintner.

v.2, no.7-10. First report on the iron mines and iron-ore districts in the state of New York, by J. C. Smock.—Boleti of the United States, by C. H. Peck.—Beaks of unionidæ inhabiting the vicinity of Albany, N. Y., by W. B. Marshall.—Building stone in New York, by J. C. Smock.

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ROUTH, Edward John.

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531.5 Gravitation. 531.6 Energy

MACKENZIE, Arthur Stanley, *ed.*

Laws of gravitation; memoirs by Newton, Bouguer and Cavendish; with abstracts of other important memoirs.

1900. (Scientific memoirs.)531.51 M17

Contents: History of the subject before the appearance of Newton's Principia.—Extracts from Newton's Principia and System of the world.—Biographical sketch of Newton.—Bouguer's The figure of the earth.—Biographical sketch of Bouguer.—The Bertier controversy.—Account of Maskelyne's experiments on Schehallien.—Cavendish's Experiments to determine the mean density of the earth.—Biographical sketch of Cavendish.—Historical account of the experiments made since the time of Cavendish.—Table of results of experiments.

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The same. 1903.....532.5 M63t

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HERSCHEL, Clemens.

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HIGHAM, Thomas.

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MACKENZIE, Alexander, *U. S. engineer.*

Report on current-meter observations in the Mississippi river near Burlington, Iowa, during October 1879; with plates. 1884. (United States—Engineer department (army).).....r532.54 M18

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WESTON, Edmund Brownell, *comp.*

Tables showing loss of head due to friction of water in pipes. 1896r532.54 W57

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Contents: A defence of the doctrine touching the spring and weight of the air, proposed by R. Boyle in his new physico-mechanical experiments, against the objections of Franciscus Linus.—Biographical sketch of Boyle.—On the compressibility of gases at high pressure, On the elasticity and the thermal expansion of fluids throughout an interval terminating in very high pressures, by E. H. Amagat.—Biographical sketch of Amagat.

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ABBE, Cleveland.

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BARUS, Carl.

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By land and sky. 1900533.6 B13

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DERVAL, E.

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FIJNJE van SALVERDA, J. G. W.

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GRAFFIGNY, Henri de, (*pseud. of* Raoul Marquis).

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THOMPSON, Silvanus Phillips.

Light, visible and invisible. 1897.....535 T38

Contents: Light and shadows.—The visible spectrum and the eye.—Polarisation of light.—The invisible spectrum.—Röntgen light.

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This theory, first hinted at by Robert Hooke, was first clearly expounded by Huygens, but owing to Newton's influence on science, was neglected for over a century. In 1801-1804 Young again brought the theory before the scientific world but was received with ridicule, and it was reserved for Fresnel (1815) to carry out the researches and the mathematical analyses which gained the support of other workers.

POINCARÉ, Jules Henri.

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- EIJNDHOVEN, A. J. van.
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FRAUNHOFER, Joseph von.

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COLE, R.S.

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LUMMER, Otto.

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- MAXWELL, James Clerk.
Theory of heat; with corrections and additions by Lord Rayleigh. 1897. (Text-books of science.)536.I M52
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Prévost's first paper enunciates the theory of exchanges, which the selections from his treatise on radiant heat extend and explain. Stewart's papers extend the theory and establish a qualitative, or selective, relation. The first rigorous proof of the law of the emission and radiation of heat and light is due to Kirchhoff, its application to spectrum analysis to Kirchhoff and Bunsen.

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Elektrometallurgie und galvanotechnik; ein hand- und nachschlagebuch für die gewinnung und bearbeitung von metallen auf elektrischem wege. 4v. in 1. 1900. (Hartleben's elektro-technische bibliothek.)r537.85 P45

Contents: Die halb- und leichtmetalle.—Kupfer.—Edelmetalle.—Zink, blei, nickel und kobalt.

Author has attempted to give not only all practical and commonly used methods, but also those which have not been successful. Aims at a complete review of the patent and journal literature of the subject.

URQUHART, John W.

Electro-plating; a practical handbook. 1894.....537.85 U27
"Facts of every-day practice in an electro-plater's shop." *Preface.*

VAN HORNE, James Henry.

Modern electro plating. 1897.....537.85 V19
Treats of the theoretical principles involved, showing their application with cautions as to the possible sources of trouble. Intended for small plating works.

VOLKMER, Ottomar.

Betrieb der galvanoplastik, mit dynamo-elektrischen maschinen zu zwecken der graphischen künste. 1888. (Hartleben's chemisch-technische bibliothek.)r537.85 V37

WATT, Alexander.

Electro-deposition; electrolysis of gold, silver and other metals. 1889.....r537.85 W32
Contains a chapter on Electro-metallurgy.

The same; revised and enlarged by Arnold Philip. 1902. 537.85 W32
Title page of edition of 1902 reads "Electro-plating and electro-refining of metals."
Practical treatise, characterized by thoroughness in detail and exactness in statement of procedure.

Electro-metallurgy. 1895.....537.85 W32e
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WEISS, Julius.

Die galvanoplastik; ausführliches lehrbuch der galvanoplastik und galvanostegie. 1896. (Hartleben's chemisch-technische bibliothek.)r537.85 W46

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BENJAMIN, Park.

Voltaic cell; its construction and its capacity. 1893. 537.86 B43
 Bibliography, p.536-542.

CARHART, Henry Smith.

Primary batteries. 1891. 537.86 C19
 Contains a chapter on battery tests.

NIAUDET, Alfred.

Elementary treatise on electric batteries. 1893. 537.86 N31

TOMMASI, Donato.

Traité des piles électriques; piles hydro-électriques, accumulateurs, piles thermo-électriques et pyro-électriques.
 1889 537.86 T59

537.9 Tables

JAMIESON, Andrew, *comp.*

Electrical rules, tables, tests and formulæ. 1889. 537.9 J17
Contents: Formulæ of the absolute units, practical, electrical, mechanical, heat and light units.—Electro-chemical equivalents, electrolysis, heat and energy of combustion.—Practical methods of electrical measurements.—Electric conductors, copper, &c.—Insulators, guttapercha, &c.—Batteries.—Submarine cables.—Aerial land lines.—Electric lighting and transmission of power.

538 Magnetism

HOUSTON, Edwin James, & Kennelly, A.E.

Magnetism. 1896. (Elementary electro-technical series.) 538 H83

EBERT, Cæsar Hermann Robert.

Magnetic fields of force; an exposition of the phenomena of magnetism, electro-magnetism and induction, based on the conception of lines of force. v.1. 1897. 538.1 E21

LYONS, Timothy A.

Treatise on electromagnetic phenomena, and on the compass and its deviations aboard ship; mathematical, theoretical and practical. 2v. 1901-03. 538.1 L99
 "Works consulted," v.2, p.1133.

EWING, James Alfred.

Magnetic induction in iron and other metals. 1894. (Electrician series.) 538.2 E97
 "The author's aim has been to present the subject in sufficient detail to satisfy scientific students as well as to meet the wants of those who may turn to the book in quest of data for application to matters of practice." *Preface.*

MAURAIN, Ch.

Le magnétisme du fer. [1899.] (Scientia; série physico-mathématique.) 538.2 M49
 Contains several bibliographies.
 Short connected review of the results of modern researches on magnetic induction.

538.3 Electromagnetism

CONNOR, D.E.

Treatise on electro-magnetism. 1895.....538.3 C75

An attempt to show that the earth and other planets are controlled in their movements by electric and magnetic influences radiating from the sun.

FESSENDEN, Reginald Aubrey.

Determination of the nature of the electric and magnetic quantities, and of the density and elasticity of the ether. [1900.].....q538.3 F42

Reprinted from the *Physical review*, Jan. 1900.

FLEMING, John Ambrose.

Magnets and electric currents; an elementary treatise for electrical artisans and science teachers. 1898.....538.3 F62

Free from mathematics, clear and simple in style, and sound in theory.

GRAY, Andrew.

Treatise on magnetism and electricity. v.1. 1898.....538.3 G81

Theoretical and mathematical.

HEAVISIDE, Oliver.

Electromagnetic theory. 2v. 1893-99. (Electrician series.)...538.3 H39

A thorough discussion of the subject by a well known writer. Requires a good knowledge of mathematics on the part of the reader.

HYNDMAN, H.H.Francis.

Radiation; an elementary treatise on electromagnetic radiation and on Röntgen and cathode rays. 1898.....538.3 H99

JAMIESON, Andrew.

Elementary manual of magnetism and electricity. 1894.....538.3 J17

Includes directions for making simple experimental apparatus.

MANSFIELD, A.N.

Electromagnets; their design and construction. 1901538.3 M34

Brief and elementary.

MONCEL, Théodore Achille Louis, vicomte du.

Détermination des éléments de construction des électro-aimants. 1882538.3 M81

The author gives formulæ of his own for the best proportions of electromagnets, which he claims to have verified by numerous experiments.

THOMPSON, Silvanus Phillips.

Electromagnet and electromagnetic mechanism. 1892.....538.3 T38

The same. 1892r538.3 T38

A clear and non-mathematical exposition of the subject by a well known authority.

WOLCOTT, Townsend, and others.

Electro magnet. 1900538.3 W83

Contains practical detailed calculations of magnet coils.

TYNDALL, John.

Researches on diamagnetism and magne-crystallic action.

1888.538.4 T98

SCHMIDT, Erich.

Die magnetische untersuchung des eisens und verwandter metalle; ein leitfaden für hütteningenieure. 1900.....r538.6 S35

Contains several bibliographies.

Clear, concise description of the methods and the results obtained.

538.7 Terrestrial magnetism

RÜCKER, Sir Arthur William, & Thorpe, T. E.

Magnetic survey of the British Isles for the epoch, Jan. 1, 1891. 1896. (In Royal society of London. Philosophical transactions, v.188.)qr506 R81p v.188

WEINSTEIN, Bernhard.

Die erdströme im deutschen reichstelegraphengebiet und ihr zusammenhang mit den erdmagnetischen erscheinungen; im auftrage des Reichspostamtes und des Elektrotechnischen vereins, sowie mit unterstützung seitens der Königlichen preussischen akademie der wissenschaften. 2v. in 1.

1900qr538.7 W45

Considers the manner in which the earth currents change, and the connection of these changes with simultaneous ones in the terrestrial magnetic field. Based on measurements of earth current curves obtained in 1884-1888 along two lines, one between Berlin and Dresden, the other between Berlin and Thorn.

539 Molecular physics

LEHMANN, Otto.

Molekularphysik, mit besonderer berücksichtigung mikroskopischer untersuchungen und anleitung zu solchen, sowie einem anhang über mikroskopische analyse. 2v. 1888-89.r539.1 L55

A standard work. Covers the subject fully to time of publication.

IBBETSON, William John.

Elementary treatise on the mathematical theory of perfectly elastic solids, with a short account of viscous fluids. 1887..539.3 I12

TODHUNTER, Isaac.

History of the theory of elasticity and of the strength of materials; ed. by Karl Pearson. 2v. in 3. 1886-93.....r539.3 T55

v.1. Galilei to Saint-Venant, 1639-1850.

v.2. Saint-Venant to Lord Kelvin.

540 Chemistry

For Chemical technology, see 660

ABBOTT, Arthur, & Key, Arthur.

Progressive lessons in science. 1899.....540 A13

Contents: The non-metallic elements found in animal and vegetable substances.—The detection and distribution of the elements in animal, vegetable and mineral substances.

Primarily for students of domestic economy and hygiene. The language is untechnical and the experiments require but the simplest apparatus, and are chiefly along the line of food composition.

ATTFIELD, John.

Chemistry; general, medical and pharmaceutical. 1898.....540 A88

BARTLEY, Elias Hudson.

Text-book of medical and pharmaceutical chemistry.

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BLOXAM, Charles Loudon.

Chemistry, inorganic and organic, with experiments; ed. by
J. M. Thomson and A. G. Bloxam. 1895.....540 B56
Well-known general descriptive and theoretical treatise. Also describes
numerous practical applications of chemistry to the arts.

BOWMAN, John Eddowes.

Practical handbook of medical chemistry. 1855.....r540 B66

CREMER, J.H. & Bicknell, G.A. *comp.*

Chemical and metallurgical hand book containing tables,
formulas and information for the use of chemists, metal-
lurgists and mining engineers. 1898.....r540 C87

DYMOND, T. S.

Experimental course of chemistry for agricultural students.

[1898.]540 D99

Gives a knowledge of the chemistry of the organic and inorganic sub-
stances met with in agriculture, and points out their practical applica-
tions.

FOWNES, George.

Elementary chemistry, theoretical and practical. 1850.....r540 F84

The same. 1873.....r540 F84m

FURNEAUX, William S.

Elementary chemistry, inorganic and organic. 1888.....540 F99

GMELIN, Leopold.

Hand-book of chemistry, with index; tr. by Henry Watts.

19v. 1861-72. (Cavendish society. Publications.).....r540 G52

v.1. Cohesion, adhesion, affinity, light, heat and electricity.

v.2. Non-metallic elements.

v.3-6. Metals.

v.7. Generalities of organic chemistry.—Organic compounds containing
2 atoms of carbon.

v.8. Organic compounds containing 2 and 4 atoms of carbon.

v.9. Organic compounds containing 4 and 6 atoms of carbon.

v.10. Organic compounds containing 8 and 10 atoms of carbon.

v.11. Organic compounds containing 10 and 12 atoms of carbon.

v.12. Organic compounds containing 14 atoms of carbon.

v.13. Organic compounds containing 16 and 18 atoms of carbon.

v.14. Organic compounds containing 20 and 22 atoms of carbon.

v.15. Organic compounds containing 24 atoms of carbon.

v.16. Organic compounds containing from 24 to 34 atoms of carbon.

v.17. Organic compounds containing 34 to 46 atoms of carbon.

v.18. Organic compounds containing from 46 to 96 atoms of carbon.—
Animal proteides, gelatinous substances, horny substances, animal
colouring matters, vegetable proteides and allied compounds.

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GRAHAM, Thomas.

Elements of chemistry; including the applications of the

science in the arts. 2v. 1850-58.....r540 G77e

A clear exposition of the science of inorganic chemistry of that time
(1850-58). Gives many interesting methods then in use for the
separation and estimation of various elements.

HALL, Vernon James.

Chemistry and metallurgy applied to dentistry. 1898.....540 H17

HART, Edward.

Chemistry for beginners. 1896.....540 H31

The same. v.1. 1903.....540 H31c

v.1. Inorganic.

The same; experiments. 1903.....540 H31ch

LAVOISIER, Antoine Laurent.

Elements of chemistry in a new, systematic order, containing all the modern discoveries. 2v. in 1. 1806⁷.....r540 L39

MENDELÉEFF, Dmitri.

Principles of chemistry; tr. fr. the Russian by George Kamensky; ed. by T. A. Lawson. 2v. 1897.....540 M61

"Not a treatise on theoretical chemistry, but a descriptive work in which an unusual degree of attention is given to the principles of the science." *Journal of the American chemical society*.

MEYER, Mrs Lucy J. (Rider).

Real fairy folks; or, Fairy land of chemistry; explorations in the world of atoms. 1887.....j540 M65

MITCHELL, Clifford.

Dental chemistry and metallurgy. 1898.....540 M74

Devotes considerable attention to simple experimental chemistry, easy chemical analysis and physiological chemistry.

PHENIX, George P.

First lessons in chemistry. 1896. (In Boston society of natural history. Guides for science-teaching, v.1.)...507 B64 v.1

The same. 1896. (In Boston society of natural history.

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RAMSAY, Sir William.

Modern chemistry. 2v. 1900. (Temple primers.).....540 R18

v.1. Theoretical chemistry.

v.2. Systematic chemistry.

An outline, by a noted English chemist, of chemical knowledge at the end of the nineteenth century. The treatment is largely from the physical side.

REMSEN, Ira.

Elements of chemistry. 1895. (American science series; elementary course.).....540 R33

"A rational text-book, comprising something more than mere statements of fact, of experiments, and of rules. So arranged as to help the pupil to think as well as to see, to reason as well as to observe, and to understand why he performed given experiments, and the lessons to be learned from them. The language is not technical, the experiments selected are for the most part simple, and questions connected with experiments will lead students to draw their own inferences." *H. C. Bolton*.

Introduction to the study of chemistry. 1892. (American science series; briefer course.)r540 R33i

"Without a rival as an introduction to the study of organic chemistry for beginners. *Nature*, an English scientific journal of the highest character, began its review of it with: 'This is Chemistry.'" *H. C. Bolton*.

The same. 1901. (American science series; briefer course.)..540 R33i

ROSCOE, Sir Henry Enfield.

Chemistry. [1879.] (Science primers.).....540 R71c

The fundamental principles of the science, stated in a manner suited to pupils of an early age. Illustrated with numerous very simple experiments.

Lessons in elementary chemistry, organic and inorganic.

1881.....540 R71l

The same. 1890r540 R71l

ROSCOE, Sir Henry Enfield, & Schorlemmer, Carl.

Treatise on chemistry. v.1-3, pt.6, in 9. 1892-95r540 R71

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v.3. Organic chemistry.

ROTTNER, Friedrich.

Chemie für gewerbetreibende. 1889. (Hartleben's chemisch-technische bibliothek.).....r540 R76

SIMON, W.

Manual of chemistry; a guide to lectures and laboratory work for beginners in chemistry; a text-book specially adapted for students of medicine, pharmacy and dentistry. 1898....540 S59

THÉNARD, Louis Jacques.

Traité de chimie; élémentaire, théorique et pratique. 4v.

1813-16r540 T34

TILDEN, William Augustus

Introduction to the study of chemical philosophy; the principles of theoretical and systematic chemistry. 1895. (Text-books of science.).....540 T464

"Primarily intended for the use of students. It aims at presenting a synopsis—brief indeed, and probably imperfect—of the leading principles of chemistry in such a form as to give the subject a more decided educational direction than has been hitherto customary." *Preface.*

TILLMAN, Samuel Escue.

Descriptive general chemistry; a text-book for short course.

1899540 T46

Outlines the subject in very brief compass, dealing chiefly with the facts of practical value. Used as a text-book at the United States military academy, (1900).

WITTHAUS, Rudolph August.

Essentials of chemistry and toxicology. 1890.....540 W82e

The same. 1890.....r540 W82e

Medical student's manual of chemistry. 1902.....540 W82

WURTZ, Charles Adolphe.

Elements of modern chemistry. 1895.....540 W97

Devotes considerable space to organic chemistry. Contains biographical sketch of the author, who was the most illustrious French chemist of the latter half of the nineteenth century.

540.1 Alchemy

PARACELSUS, Aureolus Philippus Theophrastus Bombast von Hohenheim, *called.*

Hermetic and alchemical writings; ed. by A. E. Waite. 2v.

1894qr540.1 P22

v.1. Hermetic chemistry.

v.2. Hermetic medicine and hermetic philosophy.

Includes a lexicon of alchemy, v.2, p.348-386.

Paracelsus was the most famous alchemist and doctor of medicine of his time (1493-1541). His medical reputation is founded on the importance which he gave to pharmaceutical chemistry.

540.3 Dictionaries

LADENBURG, Albert, *comp.*

Handwörterbuch der chemie. 13v. 1882-95. (Encyklopædie der naturwissenschaften.).....qr540.3 L13

—Generalregister. 1896.

WATTS, Henry, *comp.*

Dictionary of chemistry and the allied branches of other sciences, with supplements. 7v. 1872-75.....r540.3 W33d

Dictionary of chemistry; revised by M. M. P. Muir and H. F.

Morley. 4v. 1892-94.....r540.3 W33

A well known and standard work.

WURTZ, Charles Adolphe, *comp.*

Dictionnaire de chimie pure et appliquée, avec supplément.

7vqr540.3 W97

The same; 2me supplément. v.1-3. 1892-97qr540.3 W97d

A standard work.

540.4 Essays

LASSAR-COHN, Dr.

Introduction to modern scientific chemistry, in the form of popular lectures suited for university extension students and general readers; tr. fr. the German by M. M. P. Muir.

1901540.4 L34

An exceedingly clear, well-written account of the leading facts and principles of chemistry as taught to-day. The treatment, while popular, is scientifically exact.

LIEBIG, Justus, baron von.

Chemische briefe. 1878.....r540.4 L69

Familiar letters on chemistry, in its relations to physiology, dietetics, agriculture, commerce and political economy.

1851r540.4 L69f

PRIESTLEY, Joseph.

Experiments and observations on different kinds of air. 6v.

1776-86.....r540.4 P94

Catalogue of books written by Joseph Priestley at the end of each volume.

v.4-6 title reads *Experiments and observations relating to various branches of natural philosophy; with a continuation of the observations on air.*

SCHEELE, Carl Wilhelm.

Chemical essays; tr. fr. the Transactions of the Academy of

sciences at Stockholm, with additions. 1901540.4 S31

Life of Scheele, by J. G. M'Intosh, p.13-28.

First published in 1786.

Scheele was born in 1742 at Stralsund, died in 1786 at Köping. His fame rests on his genius for experimentation, which led to a series of important discoveries exceeding in number that of any other chemist.

TISSANDIER, Gaston, & Frith, Henry.

Marvels of the elements and the strange effects of their combination; a popular account of metals, bases and salts, alchemy, distillation, flame and acids. (Scientific recreation series.)j540.4 T52

WELLS, Horace Lemuel, *ed.*

Studies from the chemical laboratory of the Sheffield scientific

school. 2v. 1901. (Yale bicentennial publications.)....r540.4 W49

v.1. Papers on general inorganic chemistry.—Papers on double halogen salts.

v.2. Papers on organic chemistry.

Bibliography, v.1, p.4-10.

540.5 Periodicals

AMERICAN chemical journal; monthly. v.1-date. 1879-

dater540.5 A51

———General index; 1879-1888, v.1-10. 1890.

———General index; 1889-1898, v.11-20. 1899.

AMERICAN CHEMICAL SOCIETY.

Proceedings, 1876-1878. 2v. in 1. 1877-79.....r540.5 A512
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——General index to the Journal, v.1-20, 1879-1898, and to the Pro-
ceedings, 1877-1879. 1902. r540.5 J466.

ANNALEN der pharmacie; quarterly. v.1-date. 1832-date..r540.5 A6132

v.33-168 title reads *Annalen der chemie und pharmacie*.
v.169-172 title reads *Justus Liebig's Annalen der chemie und pharmacie*.
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——Autoren- und sach-register, v.1-100, 1832-1856. 1861.
——Autoren- und sach-register, v.101-164, 1857-1872. 1861-74.
——General-register, v.165-220, 1873-1883. 1885.
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The same; supplementband, 1861-1870. 8v. in 4. 1861-70..r540.5 A6132s

ANNALES de chimie; monthly. v.1-date. 1789-date.....r540.5 A613

——Table des matières, v.1-30. 1801.
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——Table des matières, v.61-96. 1821.
——Table des matières, v.97-126. 1831.
——Table des matières, v.127-156. 1840.
——Table des matières, v.157-171. 1841.
——Table des matières, v.172-201. 1851.
——Table des matières, v.202-240. 1866.
——Table des matières, v.241-270. 1874.
——Table des matières, v.271-300. 1885.
——Table des matières, v.301-330. 1895.
v.97-date title reads *Annales de chimie et de physique*.

BULLETIN de la Société chimique de Paris. v.1-date. 1858-
date.r540.5 B87

——Table analytique des matières contenues dans le Bulletin, 1858-
1874, et dans les Répertoires de chimie pure et de chimie appliquée.
1876.
——Table alphabétique des auteurs et table analytique des matières
des années 1875-1888. 1894.
——Table alphabétique des auteurs et table analytique des matières des
années 1889-1898. 2v. 1900-03.

In Jan. 1863 the "Répertoire de chimie pure" was united with the Bulle-
tin, and in Jan. 1864 the "Répertoire de chimie appliquée" also united
with the Bulletin.

New ser. v.1-50, is numbered, v.6-55.
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BULLETIN de l'Association belge des chimistes, 1887-date.
ire année-date. 1887-date.....r540.5 B875

11th year, Apr. 1897-Mar. 1898 wanting.

CHEMICAL gazette; or, Journal of practical chemistry; bi-
weekly, 1842-1859. 17v. 1842-59.....r540.5 C4211

In 1860 this publication was incorporated with Chemical news and journal
of physical science.

CHEMICAL news and journal of physical science; weekly.
v.1-date. 1860-date.....qr540.5 C4212

A continuation of the Chemical gazette.

CHEMICAL SOCIETY OF LONDON.

Memoirs, 1841/42-1847/48. 3v. in 2. 1843-48.....r540.5 C421m
v.2-3 title reads *Memoirs and proceedings*.

Continued by Quarterly journal of the Chemical society of London.

Quarterly journal of the Chemical society of London. v.1-
date. 1849-date.....r540.5 C421

Issued in 2 parts entitled *Transactions and Abstracts*.

A continuation of the Memoirs and proceedings of the society.

v.15-date title reads *Journal of the Chemical society*.

——Index, v.1-25 of the Journal, 1848-72; and of the Memoirs and
proceedings, 1841-47. 1847.
——Index, v.26-42, 1873-82.
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——Index, v.63-82, 1893-1902.

CHEMIST; or, Reporter of chemical discoveries and improvements, and protector of the rights of the chemist and chemical manufacturer; monthly. v.1-8. 1840-47.....r540.5 C42
 DEUTSCHE CHEMISCHE GESELLSCHAFT ZU BERLIN.

Berichte. 3er jahrgang—date. 1870—date.....r540.5 D48
 ———Generalregister, 1868-77, jahrgang 1-10. 1880.
 ———Generalregister, 1878-87, jahrgang 11-20. 1888.
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JAHRBUCH der chemie; hrsg. von Richard Meyer, 1891—date.
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 ———General-register über die jahrgänge 1891 bis 1900; v.1-10. 1903.

JAHRESBERICHT über die fortschritte der reinen, pharmaceutischen und technischen chemie, physik, mineralogie und geologie, 1847—date. 1er jahrgang—date. 1849—dater540.5 J152
 ———Register für 1847 bis 1856. 1858.
 ———Register für 1857 bis 1866. 1868.
 ———Register für 1867 bis 1876. 1880.
 1893—date title reads Jahresbericht über die fortschritte der chemie.

JOURNAL für praktische chemie; monthly. v.1—date. 1834—date.r540.5 J46
 ———Sach- und namenregister, v.1-30, 1834-1843.
 ———Sach- und namenregister, v.31-60, 1843-1853.
 ———Sach- und namenregister, v.61-90, 1854-1863.
 ———Sach- und namenregister, v.91-108, 1864-1866.
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JOURNAL of the American chemical society; monthly, 1879—date. v.1—date. 1879—date.....r540.5 J466
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 ———General index, v.1-20, 1879-1898; and to the Proceedings, 1877-1879. 1902.

MONATSHEFTE für chemie und verwandte theile anderer wissenschaften; gesammelte abhandlungen aus den sitzungsberichten der Kaiserlichen akademie des wissenschaften, 1880—date. v.1—date. 1892—date.....r540.5 M81
 ———Generalregister, 1880-1889, v.1-10. 1894.

PHARMACEUTISCHES central-blatt; weekly. v.1—date. 1830—date.r540.5 P48
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 v.27—date title reads Chemisches central-blatt.
 ———General-register zum Chemischen central-blatt, 5. folge, jahrgang 1897-1901; arbeitet von Rudolf Arendt. 1902.

RECUEIL des travaux chimiques des Pays-Bas. v.1—date. 1882—date.r540.5 R26

RÉPERTOIRE de chimie pure, 1858-1862. 4v. 1859-62.
 (Société chimique de Paris.).....r540.5 R35
 In Jan. 1863 this united with the Bulletin de la Société chimique de Paris.

REVIEW of American chemical research; monthly. v.1—date. 1895—dater540.5 R36
 Contributed by members of the instructing staff of the Massachusetts institute of technology.
 This periodical is issued as part of the Technology quarterly and of the Journal of the American chemical society, in which the current numbers will be found.

REVUE générale de chimie pure & appliquée; monthly. v.1—date. 1899—date.....qr540.5 R37
 From 1901—date a supplement is issued with the title, "Répertoire général de chimie pure et appliquée," qr540.5 R3522.

BOLTON, Henry Carrington, comp.

- Chemical societies of the nineteenth century. 1902. (In Smithsonian institution. Miscellaneous collections, v. 41.)r506 S66m v.41
 Gives date of formation, place, name of presiding officer, number of members, titles of publications, etc.

540.8 Collected works

FRANKLAND, Edward.

- Experimental researches in pure, applied and physical chemistry. 1877540.8 F87

GLAUBER, Johann Rudolph.

- Works; containing great variety of choice secrets in medicine and alchymy, in the working of metallick mines and the separation of metals; also various cheap and easie ways of making salt-petre, and improving of barren-land, and the fruits of the earth. 3v. in 1. 1689qr540.8 G46

GRAHAM, Thomas.

- Chemical and physical researches. 1876.r540.8 G77
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540.9 History

DUCLAUX, Émile.

- Pasteur; histoire d'un esprit. 1896.r540.9 D86
Contents: Travaux de cristallographie.—Fermentations lactique et alcoolique.—Générations spontanées.—Vins et vinaigres.—Études sur les maladies des vers à soie.—Études sur la bière.—Étude sur l'étiologie des maladies microbiennes.—Étude des virus et vaccins.

KOPP, Hermann.

- Die entwicklung der chemie in der neueren zeit. 3v. in 1. 1871-73. (Geschichte der wissenschaften in Deutschland, v.10.)r540.9 K38
 The period covered is approximately from 1700 to 1870.
 Geschichte der chemie. 4v. in 2. 1843-47r540.9 K38g
 "A classical work, above praise." *H. C. Bolton.*

LADENBURG, Albert.

- Lectures on the history of the development of chemistry since the time of Lavoisier. 1900540.9 L13
 Reviews briefly the main steps in the advance; attempts to bring out the connection of past theories with those now held.

LIEBIG, Justus, baron von, & Schönbein, C.F.

- Briefwechsel, 1853-1868; mit anmerkungen, hinweisen und erläuterungen, versehen und hrsg. von G. W. A. Kahlbaum und Eduard Thon. 1900. (Monographien aus der geschichte der chemie.)540.9 L69
 The correspondence of these noted chemists throws valuable light on chemical history. These letters tell us of their own work, the new discoveries of the period, and the theories then held.

MEYER, Ernst von.

- History of chemistry, from earliest times. 1898540.9 M65
 "An ably written, condensed history, covering the entire period of chemistry, and from a modern standpoint. The progress of the science since Lavoisier is treated particularly fully." *H. C. Bolton.*

RAMSAY, Sir William.

Gases of the atmosphere; the history of their discovery.

1896.540.9 R18

"Discovery of argon," p.146-240.

*Written for persons without special scientific training.

TILDEN, William Augustus.

Short history of the progress of scientific chemistry in our

own times. 1899.540.9 T46

VENABLE, Francis Preston.

Short history of chemistry. 1900540.9 V25

Good brief survey of the growth of chemistry from earliest times to the present day.

541 Theoretical chemistry

CARNEGIE, Douglas.

Law and theory in chemistry. 1894.541 C21

"Contains the substance of a summer-school course of eight lectures delivered before an audience of teachers of elementary chemistry."

Preface.

COOKE, Josiah Parsons.

First principles of chemical philosophy. 1868.r541 C77f

Gives much prominence to the doctrine of special types, the prevailing theory at the time the book was written.

New chemistry. 1892. (International scientific series.)...541 C77n

"Written in popular style; aims to develop the general principles of the new chemistry in systematic order; substances and processes are described only as far as necessary to illustrate principles. To enjoy this work fully the reader should know the elements of chemistry." *H. C. Bolton.*

The same. 1874. (International scientific series.)r541 C77

Principles of chemical philosophy. 1891.541 C77

GRAHAM, Thomas, *ed.*

Chemical reports and memoirs. 1848. (Cavendish society.

Publications.)r541 G77

Contents: An atomic volume, by Prof. Otto and M. Filhol.—Isomorphism, by Prof. Otto.—Endosmosis, by Julius Vogel.—Simultaneous contrast of colours, by M. Chevreul.—The latent heat of steam at different pressures, by M. Regnault.—The artificial formation of alkalis, by M. E. Kop.—Volcanic phenomena, by Prof. Bunsen.

HOFF, Jacob Hendrik van 't.

Lectures on theoretical and physical chemistry; tr. by R. A.

Lehfeldt. 3v. 1898-99541 H67le

v.1. Chemical dynamics.

v.2. Chemical statics.

v.3. Relations between properties and composition.

To van't Hoff is due a large share of the advances made in the past few years in physical chemistry. This book is a reproduction of his lectures at the University of Berlin. A considerable knowledge of mathematics and physics is required in the reader.

Studies in chemical dynamics. 1896.q541 H67

HOOKE, Robert.

Extracts from Micrographia; or, Some physiological descriptions of minute bodies made by magnifying glasses, with observations and inquiries thereupon. 1894. (Alembic club reprints.)

....541 H77

LOCKYER, Sir Joseph Norman.

Inorganic evolution as studied by spectrum analysis.

1900.54I L76

Upholds the hypothesis that chemical elements are polymers or compounds of polymers of one matter; and that this matter exists everywhere among the stars in different degrees of polymerization and combination of polymers.

MEYER, Lothar.

Outlines of theoretical chemistry. 189954I M65

"Presents a summary of the most recent theories of chemical philosophy; it is better adapted for advanced students than for the general reader. A standard work." *H. C. Bolton.*

The same. 1892r54I M65

MUIR, Matthew Moncrieff Pattison.

Treatise on the principles of chemistry. 1889.....54I M95

"A well-written work, abreast of the times, suitable for advanced students." *H. C. Bolton.*

NERNST, Walther.

Theoretische chemie, vom standpunkte der Avogadro'schen

regel und der thermodynamik. 1900.....54I N23

An exceedingly clear statement of the facts and problems of theoretical chemistry. Is less exhaustive than Ostwald's "*Lehrbuch der allgemeinen chemie*," and pays especial attention to further applications of the theories.

OSTWALD, Wilhelm.

Grundriss der allgemeinen chemie. 1899.....r54I O29g

An exposition of the physical principles underlying chemical phenomena.

The author is an acknowledged authority on the subject.

Outlines of general chemistry. 1895.....54I O29

"Designed to meet the requirements of the student who, while not intending to devote himself to the detailed study of general chemistry, still wishes to follow intelligently the progress recently made in this important branch of science." *Author's preface.*

REMSEN, Ira.

Principles of theoretical chemistry, with special reference to

the constitution of chemical compounds. 189754I R33

541.1 Physical chemistry

DEVENTER, Ch.M. van.

Physical chemistry for beginners; tr. by B. B. Boltwood.

189954I.I D48

Clear and concise. Only slight physical and mathematical knowledge is necessary.

The same; tr. by R. A. Lehfeldt. 1897.....r54I.I D48

HOFF, Jacob Hendrik van't.

Leçons de chimie physique professées à l'université de

Berlin. 3v. 1898-1900.....r54I.I H67

v.1. La dynamique chimique.

v.2. La statique chimique.

v.3. Relations entre les propriétés et la composition.

JONES, Harry Clary.

Elements of physical chemistry. 1902.....54I.I J41

A summary of investigations made by the oldest physicists, as well as an account of those instituted by the later physical chemists. The work is characterized by the author's usual clarity and precision.

JOURNAL of physical chemistry; ed. by W. D. Bancroft & J.

F. Trevor; monthly. v.1-date. 1896-date.....qr54I.I J46

Published at Cornell university.

LEHFELDT, R.A.

Text-book of physical chemistry. 1899.....541.I L55

"Some of the most important works on physical chemistry," p.11.

"Intended to contain what a student—with limited time and many subjects to learn—may usefully read." *Preface.*

Very clearly written.

REYCHLER, A.

Outlines of physical chemistry; tr. fr. the French by John

McCrae. 1899.....541.I R37

Bibliographical note, p.268.

Broader in treatment than is usual in an elementary book. Recommended to beginners having a fair knowledge of chemistry.

WALKER, James.

Introduction to physical chemistry. 1899.....541.I W16

"As I have assumed that the student who uses this book has already taken ordinary courses in chemistry and physics, I have devoted little or no space to the explanation of terms or elementary notions which are adequately treated in the text-books on those subjects...I have throughout avoided the use of any but the most elementary mathematics." *Preface.*

ZEITSCHRIFT für physikalische chemie, stöchiometrie und

verwandtschaftslehre. v.1-date. 1887-date.....r541.I Z43

Published irregularly; edited by Wilhelm Ostwald and J. H. van't Hoff.

JONES, Harry Clary, ed.

Modern theory of solution; memoirs by Pfeffer, van't

Hoff, Arrhenius and Raoult. 1899. (Scientific memoirs.).....541.I2 J41

Contents: Pfeffer, W. Osmotic investigations.—Biography of Pfeffer.—Van't Hoff, J. H. Rôle of osmotic pressure in the analogy between solutions and gases.—Biography of van't Hoff.—Arrhenius, S. On the dissociation of substances dissolved in water.—Biography of Arrhenius.—Raoult, F.M. General law of the freezing of solvents.—Raoult, F.M. On the vapor-pressure of ethereal solutions.—Raoult, F.M. General law of the vapor-pressure of solvents.—Biography of Raoult.

Bibliography, p.129-132.

The physical chemistry of to-day is founded upon the theories advanced in these papers.

MORGAN, John Livingston Rutgers.

An outline of the theory of solution and its results, for chem-

ists and electricians. 1897.....541.I2 M89

"Gives in clear language the gist of the theory of solution, how it has arisen, and what it is to-day. The treatment and style is as non-mathematical as the nature of the subject permits." *C. E. Linebarger in the Journal of the American chemical society.*

WHETHAM, William Cecil Dampier.

Solution and electrolysis. 1895.....r541.I2 W62

Explains clearly and concisely our theoretical knowledge of these subjects.

LANDOLT, Hans.

Optical activity and chemical composition; tr. by John

McCrae. 1899.....r541.I5 L22

This forms the eighth chapter of the first volume of Graham-Otto's "Lehrbuch der chemie."

NAUMANN, Alexander.

Lehr- und handbuch der thermochemie. 1882.....541.I6 N16

Technisch-thermochemische berechnungen zur heizung

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THOMSEN, Julius.

Thermochemische untersuchungen. 4v. 1882-86.....r541.I6 T38

v.1. Neutralisation und verwandte phänomene.

- v.2. Metalloide.
 v.3. Wässrige lösung und hydratbildung.—Metalle.
 v.4. Organische verbindungen.

541.17 Electrochemistry

ARRHENIUS, Svante August.

Lehrbuch der elektrochemie. 1901.....r541.17 A77
 A text-book suitable for advanced high school pupils.

BERMBACH, Willibald.

Die wichtigsten grundbegriffe der elektrochemie und ihre
 verwertung bei den neueren theorien der galvanischen
 elemente und akkumulatoren. 1900.....r541.17 B45
 A brief survey of so much of theoretical chemistry as is needed for a
 thorough understanding of modern electrochemical theory.

BLOUNT, Bertram.

Practical electro-chemistry. 1901.....541.17 B56
 Describes only processes which are, or are likely to be, of use industri-
 ally.

"In spite of a few blemishes, the...most satisfactory work of its kind in
 any language." *Wilder D. Bancroft, in the Journal of physical chemis-
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BORCHERS, Wilhelm.

Die elektrochemie, und ihre weitere interessenssphäre auf
 der Weltausstellung in Paris, 1900. 1901.....qr541.17 B63
 Vermehrte und verbesserte ausgabe des in der "Zeitschrift für elektro-
 chemie" erschienenen berichtes.
 A very thorough report on the condition of electrochemical industries
 as shown at the Paris exposition of 1900, the first in which they
 were treated in a separate class. Dr Borchers is a leading authority
 on electrochemistry, and was a member of the international jury at
 Paris, (1901).

GOODWIN, Harry Manly, *ed.*

Fundamental laws of electrolytic conduction. 1899. (Scien-
 tific memoirs.).....541.17 G63

Contents: Relation by measure of common and voltaic electricity, by
 Michael Faraday. — On electrochemical decomposition, by Michael
 Faraday.—Biographical sketch of Faraday.—On the migration of ions
 during electrolysis, by W. Hittorf.—Biographical sketch of Hittorf.—
 On the conductivity of electrolytes dissolved in water in relation to
 the migration of their components, by F. Kohlrausch.—Biographical
 sketch of Kohlrausch.

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GORE, George.

Electro-chemistry; inorganic. [1888.] (Electrician
 series.)541.17 G66

"Intended to contain, in systematic order, the chief principles and
 facts of electro-chemistry, and to supply the student of electro-plating
 or electro-metallurgy a scientific basis upon which to build the addi-
 tional practical knowledge and experience of his trade...It will not
 supply the technical details necessary for the accurate quantitative
 determination of metals by electro-chemical processes; references to
 sources of such information will, however, be given." *Introductory
 note.*

JAHRBUCH der elektrochemie, 1894-date. 1er jahrgang-
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JONES, Harry Clary.

Outlines of electrochemistry. 1901.....q541.17 J41

• Appeared first in the *Electrical review*, v.39, 1901, under the title
 "Selected chapters in electrochemistry."

Intended particularly for the use of electrical engineers who desire
 some knowledge of the theory of electrochemistry.

- Theory of electrolytic dissociation, and some of its applications. 1900.....541.17 J41t
- KOHLRAUSCH, Friedrich, & Holborn, L.
Das leitvermögen der elektrolyte, insbesondere der lösungen; methoden, resultate und chemische anwendungen. 1898.r541.17 K36
"Literatur," p.137-143.
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Electrolysis of organic compounds; papers, (1845-1868). 1900. (Alembic club reprints.).....541.17 K36
Contains Kolbe's account of his earliest experiments, also his classic memoir upon the electrolysis of valerianates and acetates.
- LE BLANC, Max.
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- LÖB, Walter.
Electrolysis and electrosynthesis of organic compounds. 1898.541.17 L75
The same. 1898.....r541.17 L75
- MOISSAN, Henri.
Le four électrique. 1897.....541.17 M78
Very clear accounts of some of the author's experiments in reducing metallic oxides and producing diamonds with the aid of the intense heat of the electric furnace.
- TOMMASI, Donato.
Traité théorique et pratique d'électrochimie. 1889.....qr541.17 T59
- ZEITSCHRIFT für elektrochemie; weekly. v.1-date. 1894-date.qr541.17 Z43
Organ der Deutschen elektrochemischen gesellschaft.

541.2 Atoms. Molecules

- BILTZ, Heinrich.
Practical methods for determining molecular weights; tr. by H. C. Jones and S. H. King. 1899.....541.2 B48
"A masterly summation of the practical methods for determining molecular weights by the vapor-density and the cryoscopic methods, with a careful criticism of the different procedures, and a comparison of the usefulness of one with the other." *Journal of the American chemical society*.
- DALTON, John, and others.
Foundations of the atomic theory; comprising papers and extracts. 1893. (Alembic club reprints.).....541.2 D17
Reproduction of the earliest printed account (1807) of the atomic weight theory as proposed by Dalton. Also contains papers by Wollaston (1808) on super-acid and sub-acid salts.
- Foundations of the molecular theory; comprising papers and extracts. 1893. (Alembic club reprints.).....541.2 D17f
"The papers here printed in chronological order serve to exhibit the historical development of the idea of a connection existing between the number of particles in different gases and the volume they occupy." *Preface*.
- JONES, Harry Clary.
The freezing-point, boiling-point, and conductivity methods. 1897.541.2 J41
Short laboratory guide to the use of these methods of molecular weight and conductivity determinations.

MURRAY, David Ambrose.

Atoms and energies. 1901.....541.2 M97

Author claims that all atoms are "identical in essence and [vary] only as to their size and shape;" an atom being "an Impenetrable Expanse of the Ability to Modify and be Moved by Energy." These atoms are acted upon by only two energies, an attractive and a repellent; energy, however, being "a distinct Entity, not a mode of motion."

RISTEEN, A.D.

Molecules and the molecular theory of matter. 1895....541.2 R49

WURTZ, Charles Adolphe.

The atomic theory. 1891. (International scientific series.)..541.2 W97

Points out the origins and follows up the development of this celebrated theory in as plain language as the subject permits.

541.3 Chemical affinity

FARADAY, Michael.

Course of lectures on the chemical history of a candle, to which is added a lecture on platinum. [1861.].....541.3 F22

"In no work on chemistry have the phenomena of combustion, the nature of the atmosphere, and the chemistry of coal-gas been more clearly presented. The work is a little old-fashioned, but its fundamental statements are sound, and the absence of technicalities will always make it charming." *H. C. Bolton.*

REY, Jean.

Essays on an enquiry into the cause wherefore tin and lead increase in weight on calcination. 1895. (Alembic club reprints.)541.3 R37

First published in pamphlet form at Bazas in 1630.

"Apart altogether from the historical interest of the work, the quaint and lively style of the author makes his Essays still worthy of perusal." *Preface.*

541.7 Stereochemistry

FREUNDLER, P.

La stéréochimie. [1899.] (Scientia; série physico-mathématique.)541.7 F93

Bibliographie, p.97-98.

A critical and descriptive review of stereochemical theory at the close of the nineteenth century.

HOFF, Jacob Hendrik van't.

Arrangement of atoms in space; tr. by Arnold Eiloart.

1898.541.7 H67

Contents: Stereochemistry of carbon. — Stereochemistry of nitrogen compounds.—Stereochemical isomerism of inorganic compounds.

"Van't Hoff's work appeared first in French under the title 'La chimie dans l'espace' (1875). A German translation appeared in 1877 under the title 'Die Lagerung der Atome im Raume.' In 1887 a 2d French edition appeared under the title 'Dix années dans l'histoire d'une théorie.' The 2d German ed. (1894) from which the present English translation was made 'is not so much a new edition of the first German work, as a German revision of van't Hoff's 'Dix années dans l'histoire d'une théorie,' enriched by the growth of our knowledge during the last seven years.'" *Preface to the 2d ed.*

PASTEUR, Louis.

Researches on the molecular asymmetry of natural organic products. 1897. (Alembic club reprints.).....541.7 P28

Translation of two lectures before the Chemical society of Paris in 1860.

Describes the steps which led to his views on optical isomerism.

RICHARDSON, George Mann, *ed.*

Foundations of stereo-chemistry; memoirs by Pasteur, van't Hoff, LeBel and Wislicenus. 1901. (Scientific memoirs.)541.7 R41

Contents: The asymmetry of naturally occurring organic compounds, by Louis Pasteur.—Biographical sketch of Pasteur.—Structural formulas in space, by J. H. van't Hoff.—Biographical sketch of van't Hoff.—Relation between atomic formulas of organic compounds and the rotatory power of their solutions, by J. A. LeBel.—Biographical sketch of LeBel.—Space arrangement of the atoms in organic molecules and the resulting geometrical isomerism in unsaturated compounds, by Johannes Wislicenus.—Biographical sketch of Wislicenus.

Bibliography, p.133-135.

Pasteur's article gave the first suggestion leading to our present views of the space relations of the atoms in the molecule; van't Hoff's and LeBel's memoirs first gave a definite idea of what the arrangement might be. Wislicenus first took up their theory and applied it systematically to explain relationships.

541.8 Solubility

COMET, Arthur Messinger, *comp.*

Dictionary of chemical solubilities, inorganic. 1896.....r541.8 C73

RAOULT, François Marie.

Tonométrie. 1900. (Scientia; série physico-mathématique.)r541.8 R19

Bibliographie, p.115-116.

541.9 Tables. Calculations

ADRIANCE, John S. *comp.*

Laboratory calculations and specific-gravity tables. 1897..541.9 A24

ALLEN, John Alpheus, *comp.*

Tables for iron analysis. 1896.....541.9 A42

The same. 1896.....r541.9 A42

For the rapid calculation of the results of analyses.

BIEHRINGER, Joachim.

Einführung in die stöchiometrie; oder, Die lehre von der quantitativen zusammensetzung der körper und ihren mit dieser zusammenhängenden eigenschaften. 1900.....541.9 B47

Describes briefly the theory, and illustrates its practical application by a large number of well-selected numerical problems. These are worked out, and a careful explanation of the method is given. A thorough, practical guide to chemical and physico-chemical calculations.

CARNELLEY, Thomas.

Physico-chemical constants; melting and boiling point tables.

2v. 1885-87.....qr541.9 C21

Catalogue of reference literature, v.1, p.21-24.

LANDOLT, Hans, & Börnstein, Richard, *comp.*

Physikalisch-chemische tabellen. 1894.....qr541.9 L22

Contains bibliographies.

LAURENT, Auguste.

Chemical method, notation, classification & nomenclature.

1855. (Cavendish society. Publications.).....r541.9 L37

MILLER, Edmund Howd.

Calculations of analytical chemistry. 1900.....541.9 M69

Explains clearly and thoroughly all the calculations usually needed in the analytical laboratory.

MORGAN, John James, *comp.*

Tables for quantitative metallurgical analysis, for laboratory use. 1899.....r541.9 M89

WADDELL, John.

Arithmetic of chemistry; a simple treatment of the subject of chemical calculations. 1899.....541.9 W11

542 Experimental chemistry

ARENDT, Rudolf.

Technik der experimentalchemie; anleitung zur ausführung chemischer experimente. 1900.....542.2 A68

COOKE, Josiah Parsons.

Laboratory practice; a series of experiments on the fundamental principles of chemistry. 1896.....542.2 C77
A companion volume to "The new chemistry."

The same. 1896.....r542.2 C77

ERDMANN, Hugo.

Introduction to chemical preparations; a guide in the practical teaching of inorganic chemistry; authorized tr. from the second German edition by F. L. Dunlap. 1900.....r542.2 E72
Contains numerous short bibliographies.

FARADAY, Michael.

Chemical manipulation. 1842.....r542.2 F22

LENGFELD, Felix.

Inorganic chemical preparations. 1899.....542.2 L59
Prepared by the author for use of his classes at the University of Chicago.

NEWTN, G.S.

Chemical lecture experiments; non-metallic elements. 1896.....542.2 N29
"The object of this book is two-fold. Firstly, it is intended to supply chemical lecturers and teachers with a useful repertoire of experiments, suitable for illustrating upon the lecture table the modes of preparation, and the properties, of the non-metallic elements, and their commoner and more important compounds...Secondly, it is my object to furnish the chemical student with a book which shall serve as a companion to the lectures he may attend." *Preface.*

Les NOUVEAUTÉS chimiques; nouveaux appareils de laboratoires, méthodes nouvelles de recherches appliquées à la science et à l'industrie, par Camille Poulenc, 1896-date.

1896-date.....r542.2 N47
Issued annually.

SMITH, Edgar F. & Keller, H.F.

Experiments; arranged for students in general chemistry. 1895.....542.2 S64
Intended for beginners.

THORP, Frank Hall.

Inorganic chemical preparations. 1896.....542.2 T41
The preparations included are those commonly used in laboratories or those important commercially. The directions are full and clear.

THRELFALL, Richard.

On laboratory arts. 1898.....542.2 T42
Contents: Hints on the manipulation of glass and on glass-blowing for laboratory purposes.—On the preparation of vacuum tubes for the production of Röntgen's radiation.—Glass-grinding and opticians' work.—

Miscellaneous processes.—Electroplating and allied arts.—Platinising glass.

Directions and instructions to aid in the construction of physical apparatus for experimental purposes.

TRAUBE, Isidor.

Physico-chemical methods. 1898.....542.2 T69

Contents: The chemical balance.—Density.—Capillarity.—The constant of viscosity.—Solubility.—The electric conductivity of liquids.—Expansion of liquids.—Melting point and solidifying point.—Depression of the freezing points of solutions.—Boiling point and vapor pressure.—Elevation of the boiling points of solutions.—Heat of fusion.—Heat of vaporization.—Thermochemical constants.—Measurement of crystals.—Index of refraction.—Spectrum analysis.—Rotation of the plane of polarization.—General contrivances for measurements.—Tables.

WOODHULL, John Francis, & Van Arsdale, M.B.

Chemical experiments. 1899.....542.2 W86

Very elementary in character.

CLARKE, Frank Wigglesworth.

Table of specific gravity for solids and liquids. 1888.

(Constants of nature, pt.1.).....r542.3 C53

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KOLLER, Theodor.

Praktische herstellung von lösungen; ein handbuch zum raschen und sicheren auffinden der lösungsmittel aller technisch und industriell wichtigen körper. 1888.

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OETTEL, Felix.

Introduction to electrochemical experiments. 1897.....542.8 O15

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543 Analytical chemistry

See also Adulterations, 614.3

ALLEN, Alfred Henry.

Commercial organic analysis. 4v. in 7. 1898-1900.....543 A42

v.1. Introduction, alcohols, neutral alcoholic derivatives, sugars, starch and its isomers, vegetable acids, etc.

v.2, pt.1. Fixed oils, fats, waxes, glycerol, nitroglycerin and nitroglycerin explosives.

v.2, pt.2. Hydrocarbons, petroleum and coal-tar products, asphalt, phenols and creosotes.

v.3, pt.1. Tannins, dyes and coloring matters, writing inks.

v.3, pt.2. Amines and ammonium bases, hydrazines, bases from tar, vegetable alkaloids.

v.3, pt.3. Vegetable alkaloids (concluded), non-basic vegetable bitter principles, animal bases, animal acids, cyanogen and its derivatives.

v.4. Proteids and albuminous principles, proteoids or albuminoids.

The standard work on this subject (1902).

BERGEY, David Hendricks.

Handbook of practical hygiene. 1899.....543 B45

For the guidance of students in the sanitary analysis of air, water, soil, and the principal food materials, and in testing the ventilation of buildings.

BÖCKMANN, Friedrich, *ed.*

Chemisch-technische untersuchungsmethoden der gross-industrie, der versuchsstationen und handelslaboratorien.

2v. 1893.....543 B57

BRIANT, Lawrence.

Laboratory text book for brewers. 1898.....543 B74

CALDWELL, George Chapman.

Elements of qualitative and quantitative chemical analysis.

1894543 C13

Supplies a short course for students who study analysis without the intention of becoming professional analysts, but rather for its disciplinary value.

CARNOT, Marie Adolphe.

Traité d'analyse des substances minérales. v.1-2. 1898-

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v.1. Méthodes générales d'analyse, qualitative et quantitative.

v.2. Métalloïdes.

"One of the most extensive and important works on inorganic analysis which have appeared for very many years." *American chemical journal*.

CROOKES, Sir William.

Select methods in chemical analysis, chiefly inorganic.

1894543 C89

The author's object has been to give only new or little-known methods which have proven satisfactory upon personal trial, omitting those given in the standard manuals of analysis. Schemes for the separation and estimation of the rare and the common elements are given equal prominence.

GOOCH, Frank Austin, *ed.*

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HALPHEN, Georges.

La pratique des essais commerciaux et industriels. 2v.

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v.2. Matières organiques.

HORNBLY, John.

Gas engineer's laboratory handbook. 1894.....543 H79

JAGNAUX, Raoul.

Analyse chimique des substances commerciales, minérales et organiques. 1897.....r543 J14

KÖNIG, Joseph.

Die untersuchung landwirtschaftlich und gewerblich wichtiger stoffe. 1898.....r543 K37

LEHMANN, Karl Bernhard.

Die methoden der praktischen hygiene; anleitung zur untersuchung und beurtheilung der aufgaben des täglichen

lebens für ärzte, chemiker und juristen. 1890.....r543 L55

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LUNGE, George, *ed.*

Chemisch-technische untersuchungsmethoden; mit benutzung der früheren von Friedrich Böckmann bearbeiteten auf-lagen. 3v. 1899-1900.....r543 L97

Covers the whole field of industrial chemistry, giving the suitable analytical methods for commercial work.

MUTER, John.

Short manual of analytical chemistry; qualitative and quantitative, inorganic and organic. 1898.....543 M98

Suitable for the use of pharmaceutical students.

OSTWALD, Wilhelm.

Scientific foundations of analytical chemistry treated in an elementary manner. 1895.....543 O29

PHILLIPS, H. Joshua.

Engineering chemistry; a practical treatise for the use of analytical chemists, engineers, ironmasters, ironfounders, students and others, comprising methods of analysis and valuation of the principal materials used in engineering work, with numerous analyses, examples and suggestions.

1894.543 P51

Contents: Reddrop's system of reagents.—Metals, alloys, etc.—Ores, lime-stones, etc.—Fuels—solid, liquid and gaseous.—Water.—Oils.—Materials used in grease-making.—Gasworks products.—Disinfectants.—Explosives.

PICK, Siegmund.

Die untersuchung der im handel und gewerbe gebräuchlichsten stoffe einschliesslich der nahrungsmittel. 1881.

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POST, Julius.

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ROCKWOOD, Elbert William.

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 "The operations of the Geological Survey at first extended only to
 the areas of the Provinces of Ontario and Quebec, then known as
 Upper and Lower Canada respectively. Subsequent to the date of
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directed by F. V. Hayden (hence commonly known as Hayden's sur-
vey) from 1867 to 1878. Twelve *Annual reports* and a number of
Bulletins were issued, chiefly concerning Colorado, Wyoming and
Montana. The first careful descriptions of many remarkable features
in the Rocky Mountain region were published in these volumes. A
detailed account of the Yellowstone Park is included in the 11th
report. Many of the outline illustrations, from drawings by W. H.
Holmes, are unexcelled. A geological atlas of Colorado accompanies
these reports." *Larned's Literature of American history*.

"By act of March 3, 1879, the Geological and Geographical Survey of

the Territories, the Geographical and Geological Survey of the Rocky Mountain Region, and the Geographical Surveys West of the One hundredth Meridian were discontinued, and the United States Geological Survey established in their stead."

Bulletin. 6v. 1875-82.....r557.8 U25b

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For contents see contents book, v.3, p.328; kept at the reference desk.

"The First and Second Bulletins, which appeared in 1874, are separately paged pamphlets, without ostensible connection with each other or with subsequent ones, but together constituting a 'First Series' of the publication. Bulletins which appeared in 1875, being those of a 'Second Series' and six in number, are continuously paged. With No.6 were issued title, contents, index, &c., for all the numbers of both 'series' which had then appeared; the design being that these should together constitute Volume 1, in order that the inconvenient distinction of 'series' might be dropped."

Final report of the survey of Nebraska and portions of the adjacent territories, by F. V. Hayden. 1872.....r557.82 U25

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v.4. Meek, F.B. Palæontology.—Hall, James, & Whitfield, R. P. Palæontology.—Ridgway, Robert. Ornithology.

v.5. Watson, Sereno. Botany.

v.6. Zirkel, Ferdinand. Microscopical petrography.

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UNITED STATES—Geological survey.

Annual report (1st-date), [for the year ending June 30, 1880-date]. 1880-date.....qr557.3 U25a

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Pt.2 of the 10th, 11th and 12th reports, and pt.3 of the 13th report are the reports (1st-4th) of the Irrigation survey.

Pt.4 of the 18th, 19th, 20th, 21st and 22d reports are on hydrography.

Pt.5 of the 19th, 20th and 21st reports are on forest reserves.

For a list of the "Accompanying papers" see contents book, p.56; kept at the reference desk.

1st-21st reports are indexed in Bulletin 177 of the Survey.

By a joint resolution of May 16, 1902 the character of the Reports of the Geological survey was somewhat changed: The Reports were restricted to one volume and much of the material previously included in them under the title "Accompanying papers" will now be found in the various series of publications of the survey namely: "Bulletins," "Professional papers" and "Water supply and irrigation papers."

Bulletin. no.1-date. v.1-date. 1884-date.....r557.3 U25b

For contents see contents book, p.5; kept at the reference desk.

no.1-176 are indexed in no.177.

Geologic atlas of the United States. Folio 1-95, in 6v.

1894-1903qr557.3 U25g

v.1. Folio 1-16. Livingston, Montana.—Ringgold, Georgia; Tennessee.—Placerville, California.—Kingston, Tennessee.—Sacramento, California.—Chattanooga, Tennessee.—Pike's Peak, Colorado.—Sewanee,

- Tennessee.—Anthracite-crested Butte, Colorado.—Harper's Ferry, Virginia; Maryland; West Virginia.—Jackson, California.—Estillville, Kentucky; Virginia; Tennessee.—Fredericksburg, Virginia; Maryland.—Staunton, Virginia; West Virginia.—Lassen Peak, California.—Knoxville, Tennessee; North Carolina.
- v.2. Folio 17-32. Marysville, California.—Smartsville, California.—Stevenson, Alabama; Georgia; Tennessee.—Cleveland, Tennessee.—Pikeville, Tennessee.—McMinnville, Tennessee.—Nomini, Maryland; Virginia.—Three Forks, Montana.—Loudon, Tennessee.—Pocahontas, Virginia; West Virginia.—Morristown, Tennessee.—Piedmont, West Virginia; Maryland.—Nevada City, California, (special).—Yellowstone national park, Wyoming.—Pyramid Peak, California.—Franklin, West Virginia; Virginia.
- v.3. Folio 33-48. Briceville, Tennessee.—Buckhannon, West Virginia.—Gadsden, Alabama.—Pueblo, Colorado.—Downieville, California.—Butte special folio, Montana.—Truckee, California.—Wartburg, Tennessee.—Sonora, California.—Nueces, Texas.—Bidwell Bar, California.—Tazewell, Virginia; West Virginia.—Boise, Idaho.—Richmond, Kentucky.—London, Kentucky.—Tennile district special folio, Colorado.
- v.4. Folio 49-64. Roseburg, Oregon.—Holyoke, Massachusetts; Connecticut.—Big trees, California.—Absaroka, Wyoming.—Standingstone, Tennessee.—Tacoma, Washington.—Fort Benton, Montana.—Little Belt Mountains, Montana.—Telluride, Colorado.—Elmoro, Colorado.—Bristol, Virginia; Tennessee; La Plata, Colorado.—Monterey, Virginia; West Virginia.—Menominee special folio, Michigan.—Mother Lode district, California.—Uvalde, Texas.
- v.5. Folio 65-80. Tintic special folio, Utah.—Colfax, California.—Danville, Illinois; Indiana.—Walsenburg, Colorado.—Huntington, West Virginia; Ohio.—District of Columbia; Maryland; Virginia.—Spanish peaks, Colorado.—Charleston, West Virginia.—Coos Bay, Oregon.—Colgate, Indian territory.—Maynardville, Tennessee.—Austin, Texas.—Raleigh, West Virginia.—Rome, Georgia; Alabama.—Atoka, Indian territory.—Norfolk, Virginia; North Carolina.
- v.6. Folio 81-96. Chicago, Illinois; Indiana.—Masontown-Uniontown, Pennsylvania.—New York city, New York; New Jersey.—Ditney, Indiana.—Oelrichs, South Dakota; Nebraska.—Ellensburg, Washington.—Camp Clarke, Nebraska.—Scotts Bluff, Nebraska.—Port Orford, Oregon.—Cranberry, North Carolina; Tennessee.—Hartville, Wyoming.—Gaines, Pennsylvania; New York.—Elkland.—Tioga, Pennsylvania.—Brownsville.—Connellsville, Pennsylvania.—Columbia, Tennessee.

Folios 1-70 are indexed in Bulletin 177 of the Survey.

Mineral resources of the United States, 1882-date.....r557.3 U25

Reports for 1894-1899 will be found in the Annual reports of the United States geological survey.

Reports for 1882-1899 are indexed in Bulletin 177 of the Survey.

For earlier reports see United States—Mining statistics, Commissioner of. Statistics of mines and mining in the states and territories west of the Rocky mountains, r553 U25.

Topographic atlas of the United States. Folio 1-3. 1898-

1900.qr557.3 U25t

Folios 1-3 are indexed in Bulletin 177 of the Survey.

"The topographic sheets represent a great variety of topographic features, and with the aid of descriptive text they can be used to illustrate topographic forms. This has led to the projection of an educational series of topographic folios, for use wherever geography is taught in high schools, academies, and colleges. Of this series the first three folios have been issued, viz: 1-2. Physiographic types, by Henry Gannett. 3. Physical geography of the Texas region, by R. T. Hill."

Topographic sheets. 1882-date.....qr557.3 U25to

These sheets are indexed in no.177 of the Bulletins of the Survey.

Index maps to the Topographic atlas sheets issued to August 1902, will be found in qr557.3 U25i.

"When, in 1882, the Geological Survey was directed by law to make a geologic map of the United States, there was in existence no suitable topographic map to serve as a base for the geologic map. The preparation of such a topographic map was therefore immediately begun. About three-tenths of the area of the country, excluding Alaska, has now [1901] been thus mapped. The map is published in

atlas sheets, each sheet representing a small quadrangular district...
The mapped areas are widely scattered, nearly every State being
represented."

About 1225 of the atlas sheets have been issued and are in the library.

PATTON, Jacob Harris.

Natural resources of the United States. 1888.....r557.3 P31

The same; condensed. 1891. (Science primers.).....557.3 P31

The same. 1897. (Science primers.)r557.3 P31n

SHALER, Nathaniel Southgate, and others.

Geology of the Narragansett basin. 1899. (United States—
Geological survey. Monographs.).....qr557.4 S52

"Bibliography of the Cambrian and carboniferous rocks of the Narra-
gansett basin," p.212-214.

State surveys

Maine

MAINE—Geological survey.

Annual report (2d-3d) on the geology of Maine, by Charles

T. Jackson. 1838-39.....r557.41 M26

Report of an exploration and survey of the territory on the

Arpostook river during the spring and autumn of 1838,
by E. Holmes. 1839.....r557.41 M26

Bound with the Annual report of the geology of Maine.

STONE, George Hapgood.

Glacial gravels of Maine and their associated deposits. 1899.

(United States—Geological survey. Monographs.)..qr557.41 S87

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New Hampshire

NEW HAMPSHIRE—Geological survey. (1st survey.)

Final report on the geology and mineralogy of New Hamp-
shire, with contributions towards the improvement of agri-

culture and metallurgy, by C. T. Jackson. 1844.....qr557.42 N26

"The nature of the work was mineralogical. The general view of age
and structure presented was that of the older authors, all granite
being regarded as 'Primary,' and the dips of strata outward in every
direction from an igneous center." C. H. Hitchcock.

NEW HAMPSHIRE—Geological survey. (2d survey.)

Geology of New Hampshire; report comprising the re-
sults of explorations ordered by the legislature, by

C. H. Hitchcock. 4v. 1874-78.....qr557.42 N26g

v.1. Physical geography.

v.2. Stratigraphical geology.

v.3. Surface geology.—Mineralogy and lithology.—Economic geology.

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Vermont

VERMONT—Geological survey.

Annual report (1st-2d) on the geology of Vermont, 1845-

1846. 1845-46.....r557.43 V27

Report of the state geologist on the mineral industries and

geology of certain areas, 1901-1902. 1902.....r557.43 V27re

List of official reports and other publications on Vermont geology,
p.14-21.

- Report on the geology of Vermont; descriptive, theoretical, economical and scenographical, by Edward Hitchcock and others. 2v. 1861.....qr557.43 V27r
 This is the final report of the survey which was begun in 1845. The state made no appropriation for geological work between the years 1861 and 1896, and the so-called state geologist was really only curator of the State Cabinet. Whatever geological work was done was carried on without state aid.

Massachusetts

MASSACHUSETTS—Geological survey.

- Final report, by Edward Hitchcock. 2v. 1841.....qr557.44 M45
 v.1. Economical geology.—Scenographical geology.
 v.2. Scientific geology.—Elementary geology.—Catalogue of the specimens of rocks and minerals in the state collection.

- Report on the geology, mineralogy, botany and zoology of Massachusetts, with a descriptive list of the specimens of rocks and minerals collected for the government, by Edward Hitchcock. 1833.....qr557.44 M45r

Contents: Economical geology.—Topographical, geology.—Scientific geology.—Catalogues of animals and plants.

PUMPELLE, Raphael, and others.

- Geology of the Green Mountains in Massachusetts. 1894.
 (United States—Geological survey. Monographs.)...qr557.44 P98
Contents: Geology of the Green Mountains in Massachusetts, by Raphael Pumpelly.—The geology of Hoosac Mountain and adjacent territory, by J. E. Wolff.—Mount Greylock; its areal and structural geology, by T. N. Dale.

EMERSON, Benjamin Kendall.

- Geology of old Hampshire county, Massachusetts, comprising Franklin, Hampshire and Hampden counties. 1898.
 (United States—Geological survey. Monographs.)...qr557.442 E58
 Bibliography, p.762-782.

Rhode Island

RHODE ISLAND—Geological and agricultural survey.

- Report on the geological and agricultural survey of the state of Rhode-Island, made under a resolve of legislature in 1839, by C. T. Jackson. 1840.....r557.45 R38

New York

NEW YORK (state)—Geological survey.

- Annual report (2d, 4th) of the first geological district of the state of New York, 1837, 1839, by W. W. Mather.
 (In its Reports relative to the geological survey, 1837, 1839.).....r557.47 N26
 A later and more complete report of this district will be found in v.9 of the Natural history of New York, (qr570.9747 N26).
 The first geological district of New York consisted of the counties of Suffolk, Queens, Kings, Richmond, New York, Westchester, Rockland, Putnam, Dutchess, Orange, Sullivan, Delaware, Ulster, Greene, Columbia, Rensselaer, Albany, Schoharie, Schenectady, Saratoga and Washington, containing an area of 12,263 square miles.
 Annual report (2d, 4th) of the survey of the second geological district, by E. Emmons, 1837, 1839. (In its Re-

ports relative to the geological survey, 1837, 1839.) . . . r557.47 N26

A later and more complete report of this district will be found in v.9 of the Natural history of New York, (qr570.9747 N26).

The second geological district of New York consisted of the counties of Warren, Essex, Franklin, Clinton, Hamilton, Jefferson and St. Lawrence, making 10,817 square miles.

Annual report (2d, 4th) of the geological survey of the third district, by Lardner Vanuxem, 1837, 1839. (In its Reports relative to the geological survey, 1837, 1839.) . . . r557.47 N26

Title of the second report reads, "Second annual report of so much of the geological survey of the third district of the state of New York as relates to objects of immediate utility."

A later and more complete report of this district will be found in v.9 of the Natural history of New York, (qr570.9747 N26).

The third geological district comprised the counties of Fulton, Montgomery, Herkimer, Oneida, Lewis, Oswego, Madison, Onondaga, Cayuga, Wayne, Ontario, Monroe, Orleans, Genesee and Livingston, making 11,468 square miles.

Annual report (2d, 4th) of the survey of the fourth district, by James Hall, 1837, 1839. (In its Reports relative to the geological survey, 1837, 1839.) r557.47 N26

A later and more complete report of this district will be found in v.9 of the Natural history of New York, (qr570.9747 N26).

The fourth district consisted of the counties of Otsego, Chenango, Broome, Tioga, Chemung, Cortland, Tompkins, Seneca, Yates, Steuben, Allegany, Cattaraugus, Chautauqua, Erie and Niagara, embracing an area of 11,594 square miles.

The third and fourth districts were afterward reorganized, making all the counties to the west of Cayuga lake, and a line drawn north and south from its two extremities, the fourth district, which contained 11,060 square miles.

NEW YORK (state)—Geologist.

Report (7th—date) of the state geologist to the regents, for the year 1887—date. 1888—date. (In New York (state)

—Museum. Annual report, 1887—date.) qr507 N26

Reports (1st—20th), 1881—1900, are indexed in Bulletin no.66 of the New York state museum, qr507 N26b.

Until 1898 the reports of the state geologist contained the reports of the paleontologic work. The geologist originated from the commission of 1837 on the geological survey and the title of paleontologist was added in 1843. For the early reports, see Annual reports of the geological districts (r557.47 N26), and v.9—12 of the Natural history of New York (qr570.9747 N26).

Pennsylvania

PENNSYLVANIA—Committee on a geological and mineralogical survey of the state.

Report read in the House of representatives, Feb. 3, 1836. 1836. r557.48 P39

Bound with other pamphlets.

PENNSYLVANIA—Geological survey. (1st survey.)

Annual report (1st—6th), on the geological survey, by H.

D. Rogers, state geologist, made to the legislature,

1836—41. 1836—42. r557.48 P39

"At the time of the organization of the Survey, it was estimated that it would occupy at least ten years; but the financial embarrassments of the Commonwealth made it expedient to withhold further appropriations after the sixth year, and to bring the Survey abruptly to a close before it could be completed in all its parts." *H. D. Rogers.*

A vast mass of material was reserved for the Final report, which, however, did not appear for seventeen years, viz in 1858, (qr557.48 P39g).

Geology of Pennsylvania; a government survey by H. D.

- Rogers. 2v. 1858.....qr557.48 P39g
- v.1, Book 1. Primal auroral strata of the Atlantic slope.
 Book 2. Kittatinny valley.
 Book 3. Stroudsburg.—Orwigsburg valley.
 Book 4. Northeastern district.
 Book 5. Lower Juniata district.
 Book 6. Upper Juniata district.
 Book 7. Seventh district in the northwest corner of the state.
 v.2, Book 8. Anthracite coal region.
 Book 9. Bituminous coal fields.
- This is the Final report of the first geological survey. It could not be published until 1858 because of lack of funds.
- "The first survey of Pennsylvania may be truly said to close in 1851. All [work] between that and the appearance of the Final report in 1858 was of superficial revision in the field, and editorial labor in the cabinet." *J. P. Lesley, 1876.*

PENNSYLVANIA—Geological survey. (2d survey.)

- Annual report, 1885-1887. 3v. in 9. 1886-89.....r557.48 P399
- The same.* 1886. v.2. 1887557.48 P399

- Final report; a summary description of the geology of Pennsylvania, with index. 4v. in 6. 1892-95.....r557.48 P399f
- v.1. Description of the Laurentian, Huronian, Cambrian and lower silurian formations.
 v.2. Description of the upper silurian and Devonian formations.
 v.3, pt.1. Description of the carboniferous formation.
 v.3, pt.2. Description of the bituminous coal fields.
 v.4, pt.1. Atlas to final report.
 v.4, pt.2. Index to final report.

- The same.* v.1. 1892557.48 P399f

"The accuracy of the statements of the geologists [of the First survey] whose reports are condensed and consolidated in the final report of Prof. H. D. Rogers, published in 1858, is a matter of frequent remark and admiration. Yet the First survey was essentially a reconnaissance. Those engaged in it thirty years ago worked chiefly without instruments of precision and under the greatest inconvenience. Their views were broad, their isolated observations numerous and exact, but their districts never were accurately surveyed by them, nor could be. The second survey is intended to supply this lack; to take up their work where they left off; to reduce their general statements to precision; to measure, where they could only estimate; to define, what they could only indicate; to demonstrate what they could see to be true, but which they could not prove and show in all its truth." *J. P. Lesley, state geologist.*

Geological hand-atlas of the 67 counties of Pennsylvania.

- 1885qr557.48 P399g
- Grand atlas. v.1-5, in 6. 1884-85.....qr557.48 P399gr
- v.1. County geological maps.
 v.2 in 2. Anthracite coal fields.
 v.3. Petroleum and bituminous coal fields.
 v.4. South Mountain and Great Valley topographical maps.
 v.5. Central and south-eastern Pennsylvania.

- A list of, and brief guide to, the publications of the Pennsylvania geological survey, 1874-1895; compiled by H. P. Miller. 1896.....r557.48 P399l

- Reports of progress, (A-Z). 107v. 1875-90.....r557.48 P399r
- For analytical contents see check list which is kept at the reference desk.
- A.v.1. History of the First geological survey of Pennsylvania, from 1836 to 1858, by J. P. Lesley.
- A2. v.2. Report on the causes, kinds and amount of waste in mining anthracite coal, by F. Platt.
- AC. v.3-4. Report on mining methods, with atlas.
- AA. v.5-27. Report of progress of the anthracite survey, with atlases.
- B. v.28-29. Report on the minerals.
- C. v.30-37. Reports on counties.
- D. v.38-44. Reports on counties.
- E. v.45. Trap dykes and azoic rocks of south east Pennsylvania.
- F. v.46-49. Report on Juniata river district.

- G. v.50-56. Reports on counties.
 H. v.57-64. Reports on counties.
 I. v.65-70. Reports on various oil regions.
 J. v.71. Report on the oil region, by H. E. Wrigley.
 K. v.72-75. Report on Fayette and Westmoreland counties and on Monongahela river coal mines.
 L. v.76. Report on the Youghiogheny coke manufacture, by F. Platt.
 M. v.77-79. Report of chemical analyses, 1874-80.
 N. v.80. Report on the levels above tide of railroads, canals, etc., by C. Allen.
 O. v.81-83. Catalogue of specimens collected by the survey.
 P. v.84-91. Report on the coal flora and Dictionary of fossils found in Pennsylvania.
 Q. v.92-95. Reports on counties.
 R. v.96-99. Reports on counties.
 T. v.100-104. Reports on counties.
 V. v.105-106. Reports on counties.
 X. v.107. Geological hand atlas of the sixty-seven counties of Pennsylvania.
 Z. v.108. Report on the terminal moraine across Pennsylvania.
 D4, S and Y were never published.

The same, (AC, I3, I5). v.3-4, 67-68, 70. 1883-90.....r557.48 P399r

LESLEY, John Peter.

Geology of the Pittsburgh coal region. 1886.....r557.488 L64

New Jersey

NEW JERSEY—Geological survey. (1st survey.)

Description of the geology of New Jersey; a final report, by H. D. Rogers. 1840.....r557.49 N26

NEW JERSEY—Geological survey. (2d survey.)

Annual report (2d), for the year 1855. 1856.....r557.49 N26a

NEW JERSEY—Geological survey. (3d survey.)

Annual report (19th-date), of the state geologist, 1882-date. 1882-date.....r557.49 N26an

pt.2 of the report for 1899, which is a report on forests, is catalogued separately, r634.9 N26; Appendix to the report for 1902 is also catalogued separately, r562 W48.

Final report of the state geologist. 5v. in 7. 1888-

1902.qr557.49 N26f

v.1. Geodetic survey, by E. A. Bowser.—Physical description, by C. C. Vermeule.—Population.—Bench-marks.—Magnetic survey.—Climatology, by J. C. Smock.

v.2 in 2. Catalogue of minerals found in New Jersey, by F. A. Canfield.—Catalogue of plants, by N. L. Britton.—Catalogue of insects, by J. B. Smith.—Catalogue of vertebrates, by Julius Nelson.

v.3. Report on the water supply, by C. C. Vermeule.

v.4. Physical geography of New Jersey, by R. D. Salisbury.—Appendix, by C. C. Vermeule.

v.4, pt.2. Relief map of New Jersey, by J. C. Smock and C. C. Vermeule.

v.5. The glacial geology of New Jersey, by R. D. Salisbury and others.

Geology of New Jersey, by G. H. Cook. 1868.....qr557.49 N26g

Contents: Introduction.—DETAILED GEOLOGY: Azoic formation.—Paleozoic formation.—Triassic formation.—Cretaceous formation.—Tertiary and recent formations.—Historic geology.—ECONOMIC GEOLOGY: Fertilizers.—Building materials.—Ores.—Manufacturers' materials and useful products.

This is the Final report.

NEW JERSEY—Geological survey. (2d survey.)

Geology of the county of Cape May, by G. H. Cook.

1857r557.499 N26

Contents: Physical and geological description.—Economic geology.—Catalogues of zoological and botanical productions of the county of Cape May.—Sketch of the early history of the county of Cape May.

Maryland

MARYLAND—Geological survey.

[Report.] v.1—date. 1897—date.....qr557.52 M43

v.1. Introduction, by W. B. Clark.—Historical sketch, embracing an account of the progress of investigation concerning the physical features and natural resources of Maryland, by W. B. Clark.—Outline of present knowledge of the physical features of Maryland, by W. B. Crane.—Bibliography and cartography of Maryland, by E. B. Mathews.—First report upon magnetic work in Maryland, by L. A. Bauer.

v.2. Administrative report, by W. B. Clark.—The building and decorative stones of Maryland, by G. P. Merrill and E. B. Mathews.—Report on the cartography of Maryland, by Henry Gannett and E. B. Mathews.

v.3. Introduction, including an account of the organization of highway investigations by the Maryland geological survey, by W. B. Clark.—The relations of Maryland topography, climate and geology to highway construction, by W. B. Clark.—Highway legislation in Maryland, and its influence on the economic development of the state, by St. G. L. Sioussat.—The present condition of Maryland highways, by A. N. Johnson.—Construction and repair of roads, by A. N. Johnson.—Qualities of good road-metals and the methods of testing them, by H. F. Reid.—The administration of roads, including the method and expense of road improvements, by H. F. Reid.—The advantages of good roads, by H. F. Reid.

v.4. Paleozoic Appalachia, or the history of Maryland during paleozoic time, by Bailey Willis.—Second report on the highways of Maryland, by H. F. Reid and A. N. Johnson.—Report on the clays of Maryland, by Heinrich Ries.

[Report on county resources.] [v.1–3.] 1900–1902....qr557.52 M43r

[v.1.] Allegany county, with atlas.

[v.2.] Cecil county, with atlas.

[v.3.] Garrett county, with atlas.

Each volume contains a bibliography of references to the geology of the county described.

[Reports on the systematic geology and paleontology of

Maryland.] v.1. 1901.....qr557.52 M43re

v.1. Eocene.

Virginia. West Virginia

WEST VIRGINIA—Geological survey.

Bulletin. no.1—date. 1901—date.....r557.54 W56b

no.1. A bibliography of works upon the geology and natural resources of West Virginia, 1764–1901, and also A cartography of West Virginia, 1737–1901, comp. by S. B. Brown.

Report, 1897—date. v.1—date. 1899—date.....r557.54 W56

v.1. Report of Geological commission.—Levels above tide, by I. C. White.—Variation of the magnetic compass, by R. U. Goode.—Petroleum and natural gas, by I. C. White.

v.2. Levels above tide, true meridians, etc., by I. C. White.—Appalachian coal field, by I. C. White.

BOYD, Charles R.

Resources of south-west Virginia, showing the deposits of iron, coal, zinc, copper and lead. 1881.....557.55 B66

The same. 1881.....r557.55 B66

CAMPBELL, John Lyle, 1818–86.

Geology and mineral resources of the James river valley, Virginia. 1882.....r557.55 C15

McCREATH, Andrew S. & D'Invilliers, E. V.

Geological and chemical report on a portion of the Virginia and Tennessee coal and iron company's property; embracing about 15,000 acres along the Clinch valley

division of the Norfolk & Western R. R., Wise county,

Va. 1892.....r557-55 M14g

ROGERS, William Barton.

Reprint of annual reports and other papers on the geology

of the Virginias, [ed. by Emma Rogers]. 1884.....r557-55 R61

Contents: Annual reports of progress of the geological survey for 1835-41.—Physical structure of the Appalachian chain.—Artesian borings at Fortress Monroe.—Age of the coal rocks of eastern Virginia.—Observations on the natural coke of the oölite coal region in the vicinity of Richmond.—Gravel and cobble-stone deposits of Virginia and the Middle states.—Notes from Macfarlane's Geological railway guide, 1879.—Analysis of waters of the principal mineral springs of Virginia.—Report on the Pridevale coal and iron ore, West Virginia.—Subterranean temperature in the coal mines of eastern Virginia.—Contributions to the geology of the tertiary formations of Virginia.—Some observations on the tertiary marl of lower Virginia.—Connection of thermal springs in Virginia with anticlinal axes and faults.

The VIRGINIAS; a mining, industrial and scientific journal, devoted to the development of Virginia and West Vir-

ginia; monthly. v.1-4. 1880-83.....qr557-55 V34

North Carolina. South Carolina

NORTH CAROLINA—Geological survey.

Bulletin. no.1, 6, 8-11, 13-date. 1893-date.....r557-56 N45b

no.1. Iron ores of North Carolina, by H. B. C. Nitze.

no.6. Timber trees and forests of North Carolina, by Gifford Pinchot and W. W. Ashe.

no.8. Papers on the waterpower of North Carolina, by G. F. Swain and others.

no.9. Monazite and monazite deposits in North Carolina, by H. B. C. Nitze.

no.10. Gold mining in North Carolina and adjacent Appalachian regions, by H. B. C. Nitze and H. A. J. Wilkens.

no.11. Corundum and the basic magnesian rocks of western North Carolina, by J. V. Lewis.

no.13. Clay deposits and clay industry in North Carolina, by Heinrich Ries.

Report of the geological survey, 1875, by W. C. Kerr, state

geologist. v.1. 1875.....qr557-56 N45

SOUTH CAROLINA—Agricultural and geological survey.

Report on the geology of South Carolina, by Michael

Tuomey. 1848.....qr557-57 S72

Georgia

GEORGIA—Geological survey.

Administrative report of the state geologist, for the year

ending Oct. 1894-1900. 1894-1900.....r557-58 G31a

The report for 1894/95 was not issued but the report printed in 1896 covers the period from Oct. 24, 1894 to Oct. 15, 1896.

Bulletin. no.1-2; no.3-A; no.4-A; no.5-A; no.6-A; no.7;

no.8; no.9-A; no.10-A. 1894-1902.....qr557-58 G31

no.1. McCallie, S. W. Preliminary report on the marbles of Georgia.

no.2. King, F. P. Preliminary report on the corundum deposits of Georgia.

no.3-A. Hall, B. M. comp. Preliminary report on a part of the water-powers of Georgia.

no.4-A. Yeates, W. S. and others. Preliminary report on a part of the gold deposits of Georgia.

no.5-A. McCallie, S. W. Preliminary report on a part of the phosphates and marls of Georgia.

- no.6—A. Ladd, G. E. Preliminary report on a part of the clays of Georgia.
 no.7. McCallie, S. W. Preliminary report on the artesian-well system of Georgia.
 no.8. McCallie, S. W. Preliminary report on roads and road-building materials of Georgia.
 no.9—A. Watson, T. L. Preliminary report on a part of the granites and gneisses of Georgia.
 no.10—A. McCallie, S. W. Preliminary report on a part of the iron ores of Georgia; Polk, Bartow and Floyd counties.

Paleozoic group; the geology of ten counties of northwestern Georgia, by J. W. Spencer. 1893.....r557.58 G31p
 Bibliography of Georgia geology, p.365-367.

Alabama

ALABAMA—Geological survey.

- Bulletin. v.5, no.1. 1887.....qr557.61 A31bu
 no.1. Herrick, C. L. List of the fresh-water and marine crustacea of Alabama.
 It was originally intended to publish the final reports of the survey under several different heads of which v.5 was Botany and zoology. It was found impossible to carry out this plan, but Herrick's List of crustacea was printed while the officials of the survey still had this intention.
 Bulletin. no.2, 4-7. 1892-1903.....r557.61 A31b
 no.2. Smith, E.A. Phosphates and marls of Alabama.
 no.4-6. Hayes, C.W. Report on the geology of north-eastern Alabama and adjacent portions of Georgia and Tennessee.—Brewer, W. M. and others. Preliminary report on the upper gold belt of Alabama; with supplementary notes on the most important varieties of the crystalline or metamorphic rocks of Alabama.—Ries, Heinrich. Preliminary report on the clays of Alabama.
 no.7. Hall, B. M. Preliminary report on a part of the water powers of Alabama.

Report on the Cahaba coal field, by Joseph Squire, with an appendix on the geology of the valley regions adjacent to the Cahaba field, by E. A. Smith, with map. 1890..r557.61 A31rep

Report on the geological structure of Murphree's valley, and its minerals and other materials of economic value, by A. M. Gibson. 1893.....r557.61 A31re

Report on the geology of the coastal plain of Alabama, by E. A. Smith and others; with contributions to its paleontology, by T. H. Aldrich and K. M. Cunningham. 1894....r557.61 A31r

Report on the valley regions of Alabama (paleozoic strata), by Henry McCalley. 2pts. 1896-97.....r557.61 A31
 pt.1. On the Tennessee valley region.
 pt.2. On the Coosa valley region.

Reports of progress for the years 1874-1876. 3v. 1875-76r557.61 A31rg

Mississippi

MISSISSIPPI—Agricultural and geological survey.

- Preliminary report on the geology and agriculture of the state of Mississippi, by L. Harper, state geologist. 1857r557.62 M74p
 Being the second report of the survey.
 Report on the agriculture and geology of Mississippi, embracing a sketch of the social and natural history,

by B. L. C. Wailes, geologist of Mississippi. 1854...r557.62 M74

Contents: Historical outline. — Land titles. — Agriculture. — Geology. — Fauna.—Flora.

First report of the Agricultural and geological survey of Mississippi.

Report on the geology and agriculture of the state of Mississippi, by E. W. Hilgard, state geologist. 1860...r557.62 M74r
Being the fourth report of the survey.

Louisiana

LOUISIANA—State university and agricultural and mechanical college. Experiment stations office.

Geology and agriculture. pt.3-6. 1896-1902.....r557.63 L92

pt.3-4. A preliminary report upon the Florida parishes of East-Louisiana and the bluff, prairie and hill lands of southwest Louisiana, by W. W. Clendenin.—A preliminary report upon the bluff and Mississippi alluvial lands of Louisiana, by W. W. Clendenin.

pt.5. A preliminary report on the geology of Louisiana; Historical review; General geology, by G. D. Harris and A. C. Veatch.—The Natchitoches area, by G. D. Harris.—The Shreveport area, by A. C. Veatch.—The Five Islands, by A. C. Veatch.—A report on Louisiana clay samples, by H. Ries.—A report on a collection of fossil plants from northwestern Louisiana, by Arthur Hollick.—The cretaceous and lower. eocene faunas of Louisiana, by G. D. Harris.—Establishment of meridian lines by G. D. Harris.—A few notes on road making, by G. D. Harris.—Some wood-destroying fungi, by G. F. Atkinson.

pt.6. The tertiary geology of the Mississippi embayment, by G. D. Harris.—The salines of north Louisiana, by A. C. Veatch.—The geography and geology of the Sabine river, by A. C. Veatch.—Notes on the geology along the Ouachita, by A. C. Veatch.—Improvements in Louisiana cartography, by G. D. Harris.—The subterranean waters of Louisiana, by G. D. Harris and J. Pacheco.—The tides in the Rigolets, by R. A. Harris.—Oil in Louisiana, by G. D. Harris.

Texas

CUMMINS, William Fletcher.

Notes on the geology of northwest Texas. 1893.....qr557.64 C91

From the 4th annual report of the Geological survey of Texas, 1892.

KENNEDY, W.

Report on Grimes, Brazos and Robertson counties, Texas.

1893.qr557.64 C91

From the 4th annual report of the Geological survey of Texas, 1892.

Bound with Cummins' Notes on the geology of northwest Texas.

SHUMARD, George Gettz.

Partial report on the geology of western Texas, consisting of a general geological report and a journal of geological observations along the routes traveled by the expedition between Indianola, Texas, and the valley of the Mimbres, New Mexico, 1855 and 1856; with an appendix giving a detailed report on the geology of Grayson county. 1886.....r557.64 S56

Being the notes for the official report of the Texas geological survey for 1855 and 1856, which was never published.

TEXAS—Geological and mineralogical survey. (3d survey.)

Annual report (1st-3d), 1889-91. 1890-92.....qr557.64 T32

For list of accompanying papers see contents book, p.291; kept at the reference desk.

Bulletin. no.1-4, in 1. 1889-90.....r557.64 T32b

Report of progress (2d), 1891. 1892.....r557.64 T32s

Arkansas

ARKANSAS—Geological survey. (Owen survey.)

First report of a geological reconnaissance of the northern counties of Arkansas made during 1857 and 1858, by D. D. Owen. 1858.....qr557.67 A72 v.1

Second report of a geological reconnaissance of the middle and southern counties of Arkansas, made during 1859 and 1860, by D. D. Owen. 1860.....qr557.67 A72 v.2

ARKANSAS—Geological survey. (Branner survey.)

Annual report, 1887-1892. 1887-1900.....r557.67 A72a

1887. Administrative report.

1888, v.1. Administrative report.—Comstock, T.B. Report upon preliminary examination of the geology of western central Arkansas.

1888, v.2. Hill, R. T. Neozoic geology of southwestern Arkansas.—Hay, O. P. The northern limits of the mesozoic rocks in Arkansas.—

Branner, J. C. On the manufacture of Portland cement.

1888, v.3. Winslow, Arthur. The geology of the coal regions.

1888, v.4. Simonds, F. W. The geology of Washington county.—

Branner, J. C. & Coville, F. V. A list of the plants of Arkansas.

1889, v.2. Call, R. E. The geology of Crowley's ridge.

1890, v.1. Penrose, R. A. F. Manganese.

1890, v.2. Williams, J. F. The igneous rocks of Arkansas.

1890, v.3. Griswold, L. S. Whetstones and the novaculites of Arkansas.

1890, v.4. Hopkins, T. C. Marbles and other limestones, with atlas.

1891, v.1. The mineral waters of Arkansas.

1891, v.2. MISCELLANEOUS REPORTS: Simonds, F. W. & Hopkins, T. C.

The geology of Benton county.—Branner, J. C. Elevations in the

state of Arkansas.—Branner, J. C. Observations on erosion above

Little Rock.—Branner, J. C. Magnetic observations.—Sampson, F. A.

The mollusca of Arkansas.—Bollman, C. H. The myriapoda of

Arkansas.—Meek, S. E. The fishes of Arkansas.—Siebenthal, C. E.

The geology of Dallas county.—Branner, J. C. Bibliography of the

geology of Arkansas.

1892, v.1. Penrose, R. A. F. The iron deposits of Arkansas.

1892, v.2. Harris, G. D. The tertiary geology of southern Arkansas.

1892, v.5. Branner, J. C. The zinc and lead region of north Arkansas, with atlas.

Tennessee

TENNESSEE—Geological survey.

Geology of Tennessee, by J. M. Safford. 1869.....r557.68 T29g

TENNESSEE—State geologist.

Geological report (5th) to the General assembly of Tennessee, Nov. 1839, by Gerard Troost. 1840.....r557.68 T29

Kentucky

KENTUCKY—Geological survey. (1st survey.)

Report (1st, 2d, 4th) of the geological survey in Kentucky made during 1854-1857, and 1858-1859, by D. D.

Owen. 1856-61.....qr557.69 K19

KENTUCKY—Geological survey. (2d survey.)

Chemical analyses, A. v.1; 3. 1884-88.....qr557.69 K193

v.1. 1st-3d chemical report.—Chemical analyses of the hemp and buckwheat plants.

v.3. 7th chemical report.

Part of a new edition of the Reports of progress, in which the articles are rearranged so as to bring into one series all reports relating to a given subject or locality.

- Report on the geological and economic features of the Jackson's purchase region, by R. H. Loughridge. 1888..qr557.69 K193r
- Report on the occurrence, of petroleum, natural gas and asphalt rock in western Kentucky; based on examinations made in 1888 and 1889, by Edward Orton. 1891..qr557.69 K193rep
- Reports of progress; N. S. Shaler, director. v.1, 3, 5. 1876-80.qr557.69 K193re
- Issued biennially; called "new series," as continuation of Owen's survey.
- v.1. Report on the timber growth of Greenup, Carter, Boyd and Lawrence counties in eastern Kentucky, by N. S. Shaler and A. R. Crandall.—Report of the botany of Barren and Edmonson counties, by John Hussey.—Report on the iron ores of Greenup, Boyd and Carter counties, the Kentucky division of the Hanging Rock iron region, by P. N. Moore.—Chemical report of the soils, clays, ores, mineral waters, &c. of Kentucky, by Robert Peter and J. H. Talbutt.—The iron manufacture of the Kentucky division of the Rock iron region, by P. N. Moore.—Report on the geology of the region adjacent to the Louisville, Paducah and Southwestern railroad, with a section, by C. J. Norwood.—Report of a reconnaissance in the lead region of Livingston, Crittenden and Caldwell counties, including a sketch of their general wealth, by C. J. Norwood.
- v.3. General report of the geological survey of Kentucky, by N. S. Shaler.—History of the operations of the survey in 1874 and 1875, by N. S. Shaler.—Notes on the investigations of the Kentucky geological survey during the years 1873, 1874 and 1875, by N. S. Shaler.—Annual report of N. S. Shaler for the year 1876.—The transportation routes of Kentucky and their relation to the economic resources of the commonwealth, by N. S. Shaler.—Description of the preliminary topographical and geological maps of Kentucky, edition of 1876, by N. S. Shaler.—Annual report of N. S. Shaler, state geologist, for the year 1877.—Report on the unfinished work of the survey under the direction of D. D. Owen, by N. S. Shaler.
- v.5. Description of the topography of the area within the reconnaissance triangulation of the United States coast and geodetic survey in Kentucky, 1875-1876, by W. B. Page.—Topographical report of a part of Greenup and Lawrence counties, 1874, by C. Schenk.—On the use of the telemeter in topographical surveys, by C. Schenk.—Report on the timbers of the tradewater region, by L. H. DeFries.—A general account of the geology of a part of Ohio county, by C. J. Norwood.—Report on the timbers of the district west of the Tennessee river, commonly known as the "Purchase district," by L. H. DeFries.—Third chemical report on the soils, clays, ores, mineral waters, &c. of Kentucky, by Robert Peter.—Report on the limonite ores of Trigg, Lyon and Caldwell counties, known as the "Cumberland river ores," by W. B. Caldwell.—Iron, the impurities which commonly occur with it, and their effects, by W. B. Caldwell.—Report on a belt of Kentucky timbers extending east and west from Columbus to Pound Gap, by L. H. DeFries.—Report on the timbers of Boyle and Mercer counties, by W. M. Linney.—Report on the Chinn's Branch canal coal district, by A. R. Crandall.—Fourth chemical report of the soils, clays, ores, mineral waters, &c. of Kentucky, by Robert Peter.

Ohio

OHIO—Geological survey. (1st survey.)

- Annual report (2d) of W. W. Mather, principal geologist, 1838. [1839.].....r557.71 O18a

OHIO—Geological survey. (2d survey.)

- Geological atlas of Ohio; prepared by J. S. Newberry and others. 1879.....qr557.71 O18
- Report of progress, 1869-1870. v.1-2. 1871.....r557.71 O18r

- v.1. Sketch of the progress of the geological survey in 1869, by J. S. Newberry.—Report on the Straitsville coal field, by E. B. Andrews.—Report on the geology of Montgomery county, by Edward Orton.
- v.2. Sketch of the structure of the lower coal measures in northeastern Ohio, by J. S. Newberry.—Report of labors in the 2d geological district during 1870, by E. B. Andrews.—The geology of Highland county, by Edward Orton.—Agricultural survey, by J. H. Klippart.—Report of the chemical department, by T. G. Wormley.—Sketches of the geology of Geauga and Holmes counties, by M. C. Read. — Report on the geology of Williams, Fulton and Lucas counties, by G. K. Gilbert.—Sketch of the present state of the iron manufacture in Great Britain, by W. B. Potter.—Sketch of the present state of the steel industry, by Henry Newton.

Report, with maps. 7v. in 11. 1873-93.....qr557.71 O18re

Contents: Geology, v.1, pt.1; v.2, pt.1; v.3, pt.1; v.7, pt.2.—Palæontology, v.1, pt.2; v.2, pt.2; v.7, pt.2.—Zoology, v.4, pt.1.—Economic geology, v.5-6; v.7, pt.1.

v.3, pt.2, v.4, pt.2 were never published, but material prepared for these volumes appeared in v.7, which was issued by the 3d survey.

Maps accompany v.1-2.

OHIO—Geological survey. (3d survey.)

Annual report (1st), 1890. 1890.....r557.71 O18an

1st report was made by Edward Orton, state geologist. The material gathered for the 2d report of this survey, together with certain other chapters, was published under the title "Geology of Ohio," v.7, in 1893.

Indiana. Illinois

INDIANA—Geology and natural resources department.

Annual report (1st-date), 1869-date. 1869-date.....r557.72 I24

For partial contents see contents book, p.197; kept at the reference desk.

1st-10th reports (7 volumes text, 2 volumes maps), 1869-1878, were issued by the Geological survey, E. T. Cox, state geologist. 3d-4th reports and 8th-10th, were issued as single volumes.

Reports for 1879-1880 are included in the 2d annual report of the Department of statistics and geology, r317.7 I24 v.2.

11th-16th reports, 1881-1888, were issued by the Department of geology and natural history. 15th report covers the years 1885 and 1886. 16th report is for the year 1888. 17th report is for the year 1891, 18th for 1893, after which date reports have been issued each year.

By act of Feb. 26, 1889 the offices of Mine inspector and Oil inspector were abolished and the Department of geology and natural resources, consisting of four divisions, Geology and natural science, Mines and mining, Mineral oils, Natural gas, was created.

ILLINOIS—Geological survey.

Abstract of a report on Illinois coals, with descriptions and analyses and a general notice of the coal fields, by J. G.

Norwood. 1857.....r557.73 I22a

Economical geology of Illinois; reprinted from the original reports of the geological survey, with additions and emendations, by A. H. Worthen, state geologist. v.1-

2. 1882.....r557.73 I22

"Publication...provided for by act...approved May 26, 1881, [which] required...the republication, in three volumes, of all that portion of the six volumes of the original reports that related to the Economical Geology of the State."

[Report; A. H. Worthen, director.] 8v. in 9. 1866-90....qr557.73 I22r

v. 1. Geology.

v. 2. Palæontology.

v.3-8. Geology and palæontology.

v.8 is in 2 parts, pt.2 consisting of plates.

v.8 contains a sketch of A. H. Worthen and a general index to the report.

LEVERETT, Frank.

Illinois glacial lobe. 1899. (United States—Geological survey. Monographs.).....qr557-73 L66

Michigan

CLEMENTS, Julius Morgan, & Smyth, H.L.

Crystal Falls iron-bearing district of Michigan; with a chapter on the Sturgeon river tongue, by W. S. Bayley. 1899.

(United States—Geological survey. Monographs.)...qr557-74 C56

FOSTER, John Wells, & Whitney, J.D.

Report on the geology and topography of a portion of the Lake Superior land district in the state of Michigan.

pt.1. 1850. (United States. 31st cong. 1st sess.

House. Ex. doc. no.69.).....r557-74 F81
pt.1. Copper lands.

MICHIGAN—Geological survey board.

Geological survey of Michigan, 1869–date. v.1–date. 1873–date.qr557-74 M66

v.1. Upper peninsula, 1869–1873; Iron-bearing rocks (economic), by T. B. Brooks.—Copper-bearing rocks, by Raphael Pumpelly.—Palaeozoic rocks, by C. Rominger.

v.1a. Atlas to accompany Iron-bearing rocks (economic), by T. B. Brooks.

v.2. Upper peninsula, 1869–1873; Appendices to v.1, pt.1, Iron-bearing rocks (economic), by T. B. Brooks.

v.3. Lower peninsula, 1873–1876; pt.1. Geology, pt.2. Palaeontology, by C. Rominger.

v.4. Upper peninsula, 1878–1880; Marquette iron region, by C. Rominger.—Menominee iron region, by C. Rominger.

v.5. Upper peninsula, 1881–1884; iron and copper regions, by C. Rominger.—Lower peninsula, 1885–1893; deep borings, by C. E. Wright and others.

v.6. Upper peninsula, 1893–1897; Isle Royale, by A. C. Lane.—Keweenaw Point, with particular reference to the felsites and their associated rocks, by L. C. Hubbard.—The crystallization of the calcite from the copper mines of Lake Superior, by Charles Palache.

v.7. Lower peninsula, 1896–1900; Monroe county, by W. H. Sherzer.—Huron county, by A. C. Lane.—Sanilac county, by C. H. Gordon.

v.8. Clays and shales of Michigan; their properties and uses, by Heinrich Ries.—Coal of Michigan; its mode of occurrence and quality, by A. C. Lane.—Marl (bog lime) and its application to the manufacture of Portland cement, by D. J. Hale and others.

Report of the state board of geological survey of Michigan for the year 1899–1902; being the annual report (1st–4th)

of the state geologist, 1899–1902. 1900–03.....qr557-74 M66r

MICHIGAN—Geologist.

Annual report (2d, 4th), [for the year ending Feb. 1, 1839, 1841]. 1839–[41].....r557-74 M668

2d and 4th reports were presented by Douglas Houghton, state geologist.

2D REPORT: Geology, by Douglas Houghton.—Zoology, by Abram Sager.—Botany, by John Wright.—Topography, by S. W. Higgins.—Geology of Eaton, Ingham and Jackson counties, by C. C. Douglas.—Geology of Wayne and Monroe counties, by Bela Hubbard.

4TH REPORT: Topography, geology and mineralogy of the country bordering on Lake Superior, by Douglas Houghton.—Latitudes and magnetic variations, by Frederick Hubbard.—Geology, by C. C. Douglas.—Geology, by Bela Hubbard.—Topography, by S. W. Higgins.

First biennial report of the progress of the geological survey of Michigan embracing observations on the geology, zoölogy and botany of the lower peninsula,

[by A. Winchell], 1859–1860. 1861.....qr557-74 M668f
pt.1. Geology.

pt.2. Zoölogy.

pt.3. Botany.

SHEPHERD, Forrest.

Geological survey of the mineral lands on the southern shore of Lake Superior belonging to the Pittsburgh and Boston copper harbor mining company; also a Report of the analysis of the various ores found thereon, by B. Silliman. 1846.....r622.33 W66
Bound with Whittlesey's Dissertation upon the origin of mineral coal.

VAN HISE, Charles Richard, & Bayley, W.S.

The Marquette iron-bearing district of Michigan, with atlas, including a chapter on the Republic trough, by H. L. Smyth. 2v. 1896-97. (United States—Geological survey. Monographs.)qr557.74 V19
v.1. Text. v.2. Atlas.
"Geological explorations and literature," by W. S. Bayley, v.1, p.5-148.

Wisconsin

FEATHERSTONHAUGH, George William.

Report of a geological reconnoissance, 1835, by Green Bay and Wisconsin to the Coteau de Prairie. 1836...r557.68 T29 v.5
A report of the United States geologist to the Topographical bureau.
Bound with Tennessee—State geologist. Geological report.

OWEN, David Dale.

Letter of the secretary of the treasury, communicating a report of a geological reconnoissance of the Chippewa land district of Wisconsin and the northern part of Iowa, by David Dale Owen. 1848. (United States. 30th cong. 1st sess. Senate. Ex. doc. no.57.).....qr557.75 O34

WISCONSIN—Geological and natural history survey.

Biennial report (1st-date) of the commissioners, for the two years ending Dec. 31, 1898—date. 1899—date...r557.75 W81b

Bulletin. v.1—date. 1898—date.....r557.75 W81b

v.1-3. Roth, Filibert. On the forestry conditions of northern Wisconsin.—Peckham, G. W. & E. G. On the instincts and habits of the solitary wasps.—Weidman, Samuel. A contribution to the geology of the pre-Cambrian igneous rocks of the Fox river valley, Wisconsin.

v.4. Buckley, E. R. On the building and ornamental stones of Wisconsin.

v.5. Salisbury, R. D. & Atwood, W. W. Geography of the region about Devil's lake and the Dalles of the Wisconsin.

v.6. Grant, U. S. Preliminary report on the copper-bearing rocks of Douglas county, Wis.

v.7, pt.1. Buckley, E. R. Clays and clay industries of Wisconsin.

v.8. Fenneman, N. M. On the lakes of southeastern Wisconsin.

v.9. Grant, U. S. Preliminary report on the lead and zinc deposits of southwestern Wisconsin.

v.10. Buckley, E. R. Highway construction in Wisconsin.

Hydrographic maps. no.1-10. 1898-1901.....r557.75 W81h

no.1. Lake Geneva.

no.2. Elkhart lake.

no.3. Lake Beulah.

no.4. Oconomowoc-Waukesha lake district.

no.5. Chain-o'-lakes, Waupaca co.

no.6. Delavan and Lauderdale lakes.

no.7. Green lake.

no.8. Lake Mendota.

no.9. Big Cedar lake.

no.10. Lake Monona.

WISCONSIN—Geological survey.

Annual report (1st), 1853. 1854.....r557-75 W81

Geology of Wisconsin, survey of 1873-79. v.1, 3-4. 1880-

83.qr557-75 W81g

Being the final report of the Geological survey.

v.1. General geology.—Natural history.—Industrial resources.

v.3. The Lake Superior region.—Keweenaw rocks.—Eastern Lake Superior district.—Huronian belt west of Penokee Gap.—Western Lake Superior district.—Upper St. Croix district.—Menominee iron region.—Menominee iron region (economic and supplementary).

v.4. The upper Mississippi region.—The lower St. Croix region.—Description of fossils.—Ore deposits of southwestern Wisconsin.—Quartzite of Barron and Chippewa counties.—The Flambeau region.—Crystalline rocks of the Wisconsin valley.—Superficial geology of the upper Wisconsin valley.—Character and methods of the Geodetic survey.

Minnesota

MINNESOTA—Geological and natural history survey.

Annual report (1st-4th, 6th, 9th-24th), 1872-1875, 1877,

1880-1898. 1875-99.....r557-76 M72a

24th (and final) annual report includes reports 1895-98 and contains a general index to the Annual reports (1st-24th), p.179-284.

Bulletin. v.1-10. 1889-98.....r557-76 M72b

v.1. Winchell, N. H. History of geological surveys in Minnesota.

v.2. Wadsworth, M. E. Preliminary description of the peridotites, gabbros, diabases and andesytes of Minnesota.

v.3. Arthur, J. C. Report on botanical work in Minnesota, 1886.

v.4. Oestlund, O. W. Synopsis of the aphididae of Minnesota.

v.5. Winchell, N. H. Natural gas in Minnesota.

v.6. Winchell, N. H. & H. V. Iron ores of Minnesota.

v.7. Herrick, C. L. Mammals of Minnesota.

v.8. Lawson, A. C. Anorthosites of the Minnesota coast of Lake Superior; The laccolitic sills of the north-west coast of Lake Superior.

v.9. Minnesota botanical studies, v.1.

v.10. Spurr, J. E. The iron-bearing rocks of the Mesabi range in Minnesota.

Geology of Minnesota; final report, 1872-1901. 6v. in 7.

1884-1901qr557-76 M72

v.1-2, 4-5. Geology. v.3, in 2. Paleontology.

v.6. Geological atlas, with synoptical descriptions by N. H. Winchell.

MINNESOTA—State geologist.

Annual report [of progress, 1865] on the metalliferous region bordering on Lake Superior, by H. H. Eames.

1866.r557-76 M727

Iowa

IOWA—Geological survey. (Survey of 1855-59.)

Report on the geological survey of Iowa, embracing the results of investigations made during the years 1855, 56 & 57, by James Hall [and] J. D. Whitney. v.1 in 2.

1858.....qr557-77 I25r

v.1, pt.1. Geology.

v.1, pt.2. Paleontology.

IOWA—Geological survey. (Survey of 1866-1869.)

Report on the geological survey of the state of Iowa, to the 13th general assembly, Jan. 1870, containing results of examinations and observations made within the years 1866, 1867, 1868 and 1869, by C. A. White. 2v. 1870..qr557-77 I25

IOWA—Geological survey. (Survey of 1892—.)

Annual report, 1892-1902. v. I-13. 1893-1903. qr557-77 I25a

- v.1. ANNUAL REPORT, 1892: Administrative reports.—Geological formations of Iowa, by C. R. Keyes.—Cretaceous deposits of Woodbury and Plymouth counties, with observations on their economic uses, by Samuel Calvin.—Ancient lava flows in northwestern Iowa, by S. W. Beyer.—Distribution and relations of the Saint Louis limestone in Mahaska county, by H. F. Bain.—Annotated catalogue of minerals, by C. R. Keyes.—Some Niagara lime burning dolomites and dolomitic building stones of Iowa, by G. L. Houser.—Bibliography of Iowa geology, by C. R. Keyes.
- v.2. Coal deposits of Iowa, by C. R. Keyes.
- v.3. ANNUAL REPORT, 1893: Administrative reports.—Work and scope of the geological survey, by C. R. Keyes.—Cretaceous deposits of the Sioux valley, by H. F. Bain.—Certain Devonian and carboniferous outliers in eastern Iowa, by W. H. Norton.—Geological section along Middle river in central Iowa, by J. L. Tilton.—Glacial scorings in Iowa, by C. R. Keyes.—Thickness of the paleozoic strata of north-eastern Iowa, by W. H. Norton.—Composition and origin of Iowa chalk, by Samuel Calvin.—Buried river channels in southeastern Iowa, by C. H. Gordon.—Gypsum deposits of Iowa, by C. R. Keyes.—Geology of Lee county, by C. R. Keyes.—Geology of Des Moines county, by C. R. Keyes.
- v.4. ANNUAL REPORT, 1894: Administrative reports.—Geology of Allamakee county, by Samuel Calvin.—Geology of Linn county, by W. H. Norton.—Geology of Van Buren county, by C. H. Gordon.—Geology of Keokuk county, by H. F. Bain.—Geology of Mahaska county, by H. F. Bain.—Geology of Montgomery county, by E. H. Lonsdale.
- v.5. ANNUAL REPORT, 1895: Administrative reports.—Geology of Jones county, by Samuel Calvin.—Geology of Boone county, by S. W. Beyer.—Geology of Warren county, by J. L. Tilton.—Geology of Washington county, by H. F. Bain.—Geology of Woodbury county, by H. F. Bain.—Geology of Appanoose county, by H. F. Bain.
- v.6. Lead and zinc deposits of Iowa, by A. G. Leonard.—The Sioux quartzite and certain associated rocks, by S. W. Beyer.—Artesian wells of Iowa, by W. H. Norton.—Relations of the Wisconsin and Kansan drift sheets in central Iowa and related phenomena, by H. F. Bain.
- v.7. ANNUAL REPORT, 1896: Administrative reports.—Geology of Johnson county, by Samuel Calvin.—Geology of Cerro Gordo county, by Samuel Calvin.—Geology of Marshall county, by S. W. Beyer.—Geology of Polk county, by H. F. Bain.—Geology of Guthrie county, by H. F. Bain.—Geology of Madison county, by J. L. Tilton and H. F. Bain.
- v.8. ANNUAL REPORT, 1897: Administrative reports.—Geology of Dallas county, by A. G. Leonard.—Geology of Delaware county, by Samuel Calvin.—Geology of Buchanan county, by Samuel Calvin.—Geology of Decatur county, by H. F. Bain.—Geology of Plymouth county, by H. F. Bain.—Properties and tests of Iowa building stones, by H. F. Bain.
- v.9. ANNUAL REPORT, 1898: Administrative reports.—Geology of Carroll county, by H. F. Bain.—Geology of Humboldt county, by T. H. Macbride.—Geology of Story county, by S. W. Beyer.—Geology of Muscatine county, by J. A. Udden.—Geology of Scott county, by W. H. Norton.—Artesian wells of the Belle Plaine area, by H. R. Mosnat.
- v.10. ANNUAL REPORT, 1899: Administrative reports.—Statistics of mineral productions, by S. W. Beyer.—Fossil fauna of the Kinderhook beds of Burlington, by Stuart Weller.—Geology of Lyon and Sioux counties, by F. A. Wilder.—Geology of Osceola and Dickinson counties, by T. H. Macbride.—Geology of Hardin county, by S. W. Beyer.—Geology of Worth county, by I. A. Williams.—Geology of Dubuque county, by Samuel Calvin and H. F. Bain.
- v.11. ANNUAL REPORT, 1900: Administrative reports.—Mineral production of Iowa in 1900, by S. W. Beyer.—Geology of Louise county, by J. A. Udden.—Geology of Marion county, by B. L. Miller.—Geology of Pottawattamie county, by J. A. Udden.—Geology of Cedar county, by W. H. Norton.—Geology of Page county, by Samuel Calvin.—Geology of Clay and O'Brien counties, by T. H. Macbride.
- v.12. ANNUAL REPORT, 1901: Administrative reports.—Statistics of mineral production, by S. W. Beyer.—Geology of Webster county, by F. A. Wilder.—Geology of Henry county, by T. E. Savage.—Geology of Cherokee and Buena Vista counties, by T. H. Macbride.—Geology of Jefferson county, by J. A. Udden.—Geology of Wapello county, by A. G. Leonard.

- v.13. ANNUAL REPORT, 1902: Administrative reports.—Geology of Howard county, by Samuel Calvin.—Geology of Kossuth, Hancock and Winnebago counties, by T. H. Macbride.—Geology of Mills and Fremont counties, by J. A. Udden.—Geology of Tama county, by T. E. Savage.—Geology of Chickasaw county, by Samuel Calvin.—Geology of Mitchell county, by Samuel Calvin.—Report on the lithographic stone of Mitchell county, by A. B. Hoen.—Geology of Monroe county, by S. W. Beyer and L. E. Young.

Bulletin. no.1—date. 1901—date.....r557.77 I25b

- v.1. Pammel, L. H. and others. The grasses of Iowa.

Missouri

MISSOURI—Geological survey. (1st survey.)

Annual reports (1st-2d), 1853-1854, by G. C. Swallow, state geologist. 1855.....qr557.78 M74a
Five reports were published by this first survey, but the second is the only one which embodies field work, and is the one generally known as the Swallow report. The others are very brief reports of administration and progress.

Geological report of the country along the line of the south-western branch of the Pacific railroad, state of Missouri, by G. C. Swallow. 1859.....r557.78 M74
Contains also a Memoir of the Pacific railroad.
A general account of the resources along the line of the railroad. A somewhat fuller report was published by the Pacific Railway Co. in New York.

MISSOURI—Geological survey. (2d survey.)

Preliminary report on the iron ores and coal fields from the field work of 1872, by Raphael Pumpelly, director. 1873qr557.78 M74p
Contents: Geology of Pilot Knob and its vicinity, by Raphael Pumpelly.—Analyses of iron-ores, pig-irons and fuels, by Regis Chauvenet and A. A. Blair.—Iron-ores of Missouri, by Adolf Schmidt.—Geology of northeastern Missouri, by G. C. Broadhead, and of Lincoln county, by W. B. Potter.

Reports on the geological survey of the state of Missouri, 1855-71, by G. C. Broadhead, F. B. Meek and B. F. Shumard. 1873.....qr557.78 M74r

Report of the geological survey of the state of Missouri including field work of 1873-74, by G. C. Broadhead, state geologist. 1874.....qr557.78 M74re
Contents: Lead region of south-west Missouri, by Ad. Schmidt.—Special description of ore deposits.—Lead region of central Missouri.

MISSOURI—Geological survey.

Industrial report [1875-76] on lead, zinc and iron; with notes on Shannon county and its copper deposits, by C. P. Williams, acting state geologist. 1877.....r557.78 M74i
The second survey of Missouri was discontinued after 1874, and most of its working material was transferred to the state School of mines at Rolla, of which the president, Dr C. P. Williams, was made acting state geologist. This was the only report made by Dr Williams.

MISSOURI—Geological survey. (3d survey.)

Bulletin. no.2-5, in iv. 1890-1901.....qr557.78 M74b
Contents: Bibliography of the geology of Missouri, by F. A. Sampson.—The clay, stone, lime and sand industries of St. Louis city and county, by G. E. Ladd.—The mineral waters of Henry, St. Clair, Johnson and Benton counties, by A. E. Woodward.—A description of some lower carboniferous crinoids from Missouri, by S. A. Miller.—The age and origin of the crystalline rocks of Missouri, by Erasmus Haworth.—Notes on the clays and building stones of certain western central counties tributary to Kansas City, by G. E. Ladd.

Sheet report. 1892-94.....qr557.78 M74s

Contents: Higginsville sheet, Lafayette county.—Bevier sheet, including portions of Macon, Randolph and Chariton counties. — Iron Mountain sheet, including portions of Iron, St. Francois and Madison counties.

Subject reports, 1891-1892, 1894-date. v.1-3, 6-date. 1891-date.qr557.78 M74su

- v.1. Preliminary report on the coal deposits of Missouri.
- v.2. Report on the iron ores of Missouri, by F. L. Nason.
- v.3. Report on the mineral waters of Missouri, by Paul Schweitzer.
- v.6-7. Lead and zinc deposits, by Arthur Winslow.
- v.8. Organization and results of a state geological survey, by C. R. Keyes.—Crystalline rocks of Missouri, by Erasmus Haworth.—Dictionary of altitudes, by C. F. Marbut.—Characteristics of the Ozark mountains, by C. R. Keyes.—Coal measures of Missouri, by G. C. Broadhead.
- v.9. Reports on areal geology.
- v.10. Surface features of Missouri and bibliography, by C. R. Keyes.
- v.11. Clay deposits, by H. A. Wheeler.
- v.12. Reports on areal geology.
- v.13. Preliminary report on the structural and economic geology of Missouri, by J. A. Gallagher.

SCHOOLCRAFT, Henry Rowe.

View of the lead mines of Missouri; including observations on the mineralogy, geology, geography, antiquities, soil, climate, population and productions of Missouri and Arkansas and other sections of the western country. 1819.....r557.78 S37

Kansas. Nebraska

KANSAS UNIVERSITY—Geological survey.

Annual bulletin on mineral resources of Kansas for 1898-date. [v.2]—date. 1899-date.....qr557.81 K12a

[Report.] v.2-date. 1897-date.....qr557.81 K12

- v.2. General geology of western Kansas.
- v.3. Special report on coal.
- v.4. Paleontology, pt.1, (On the upper cretaceous).
- v.5. Special report on gypsum and gypsum cement plasters.
- v.6. Paleontology, pt.2, (Carboniferous invertebrates and cretaceous fishes).
- v.7. Special report on mineral waters.

NEBRASKA—Geological survey.

Report (1st) of the state geologist, 1891-1902. 1903.
(Publications, v.1.).....qr557.82 N18
"List of papers on the natural history of Nebraska," p.232-234.

South Dakota

NEWTON, Henry, & Jenney, W.P.

Report on the geology and resources of the Black Hills of Dakota. 1880. (United States—Geographical and geological survey of the Rocky mountain region. Reports.)qr557.83 N29
Atlas accompanying this report wanting.

SOUTH DAKOTA—Geological survey.

Bulletin. no.2-3, in 1. 1898-1902.....r557.83 S726
no.2-3, in 1. South Dakota—Geological survey. First and second biennial reports, with accompanying papers, 1893-6.—O'Harra, C. C. Mineral resources of South Dakota, including mineral wealth of the Black Hills.—Todd, J. E. Mineral building material, fuels and waters of South Dakota, with production for 1900.

Wyoming

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Contents: A familiar guest; the wasp.—The cuckoos and the outwitted cow-bird.—Door-step neighbors.—A queer little family on the bitter-sweet.—The welcomes of the flowers.—A honey-dew picnic.—A few native orchids and their insect sponsors.—The milkweed.

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The sea and its wonders. 1893.....j570.4 K28

Fantastic shapes, shining creatures, animals, plants and insects are here described in a simple, interesting way. Also chapters on the motions of winds and waters. A companion volume to "The world by the fireside."

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Beginning with early spring, describes flowers, shrubs, birds and insects common along the highway, and wood and field paths. Contains some record of bird music. Well illustrated.

MIALL, Louis Compton.

Round the year; a series of short nature-studies. 1896....570.4 M66

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A popular book on nature giving very briefly the story of the origin and development of the embryo and the subsequent development in plants, fishes, frogs, birds and mammals.

"The plan of the work is novel, and the narrative is accurate and interesting to an unusual degree. Few writers on life's history give so much of it in a space so limited." *Nation*, 1892.

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Chances of death, and other studies in evolution. 2v.

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v.1. Chances of death.—Scientific aspect of Monte Carlo roulette.—Reproductive selection.—Socialism and natural selection.—Politics and science.—Reaction! a criticism of Mr Balfour's attack on rationalism.—Woman and labour.—Variation in man and woman.—Secarian criticism.

v.2. Woman as witch, evidences of mother-right in the customs of mediæval witchcraft.—Ashieppattle; or, Hans seeks his luck.—Kindred group-marriage.—German passion play; a study in the evolution of western Christianity.

"A small school of English workers, of whom Mr Galton and Prof. Weldon may be taken as the chief biologists and the author of the present volumes as the chief mathematician, have elaborated a new method of investigation into the secrets of nature, a method which may be termed mathematical biology. . . A new work of extreme scientific value and of deep popular interest." *Saturday review*.

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1899.j570.4 S85

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Harold's first discoveries. 1899.....j570.4 T75h

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"The subject-matter is taken from the common things in nature which children are most likely to meet and find interesting...The section on physics is added for the winter hours because of its importance and interest to the children." *Preface*.

Harold's rambles. 1898.....j570.4 T75

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Nature for its own sake; first studies in natural appearances.

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The object of the book is "Simply to call attention to that nature around us which only too many people look at every day and yet never see, to show that light, form, and color are beautiful regardless of human meaning or use, to suggest what pleasure and profit may be derived from the study of that natural beauty which is everyone's untaxed heritage, and which may be had for the lifting of one's eyes. The word 'nature' as it is used in these pages does not comprehend animal life in any form whatever. It is applied only to lights, skies, clouds, waters, lands, foliage—the great elements that reveal form and color in landscape, the component parts of the earth-beauty about us." *Preface*.

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ANNALS and magazine of natural history including zoology,

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A continuation of the Annals of natural history, which was published
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series 2. v.13-14, 1854.

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Delage, 1895-date. 1re année-date. 1897-date. r570.5 A61

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A comprehensive guide for teachers of natural science. References for
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Practical observation lessons for each month in meteorology, botany,
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skilful and fascinating sketch of the progress of the Life Sciences,
from Aristotle to Weissmann, from 350 B.C. to the last meeting of
the British association...The entire volume can be cordially recom-
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Report on the scientific results of the voyage of H. M. S.

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Voyage of the "Challenger;" the Atlantic; a preliminary account of the general results of the exploring expedition of H. M. S. "Challenger," during 1873 and the early part of 1876. 2v. 1878.....r570.91 T38

The laying of the first Atlantic cable having directed particular attention to the character of the bottom of the deep sea, and the forms and nature of living things there, the English government sent out a surveying expedition to investigate these questions. The Challenger belonged to the English navy, was thoroughly equipped for her work, and carried a civilian scientific staff in addition to the naval officers.

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v.1. Chile; its geography, climate, earthquakes, government, social condition, mineral and agricultural resources, commerce, etc., by J. M. Gilliss.

v.2. The Andes and pampas, by Archibald MacRae.—Minerals, by J. L. Smith.—Indian remains, by Thomas Ewbank.—Mammals, by S. F. Baird.—Birds, by John Cassin.—Reptiles, fishes and crustacea, by Charles Girard.—Shells, by A. A. Gould.—Dried plants, by Asa Gray.—Living plants and seeds, by W. D. Brackenridge.—Fossil mammals, by Jeffries Wyman.—Fossil shells, by T. A. Conrad.

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The rambles of a naturalist on the coasts of France, Spain and

Sicily. 2v. 1857.....r570.94 Q21

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Narrative of the expedition of an American squadron to the

China seas and Japan, 1852-1854, under the command of

Commodore M. C. Perry. 3v. 1856. (United States—

Navy department.).....qr570.95 P44

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BIART, Lucien.

Adventures of a young naturalist. [1902.].....j570.972 B47

COLE, George Watson, comp.

Bermuda and the Challenger expedition; a bibliography giv-

ing a summary of the scientific results obtained by that ex-

pedition at and near Bermuda in 1873. 1901.....r570.972 C68

"One of the most systematic studies of this locality was undertaken by the naturalists of the 'Challenger' expedition...In the reports on the scientific results of this expedition are some eighty monographs upon zoological subjects, in over one-half of which are to be found descriptions (many accompanied with plates) of nearly three hundred different species of marine life collected at or near these islands."

Preface.

HEILPRIN, Angelo.

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zoology of the Somers archipelago. 1889.....r570.972 H41

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v.1-5. Zoology, by J. E. De Kay.

v.6-7. Flora, by John Torrey.

v.8. Mineralogy, by L.C. Beck.

v.9-12. Geology.

v.13-17. Agriculture, by Ebenezer Emmons, (text and plates).

v.18-30. Palæontology, by James Hall.

These reports are indexed in Bulletin no.66 of the New York state museum, qr507 N26b.

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NICOLLET, Jean Nicholas.

Report intended to illustrate [accompanying] map of the

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Feb. 16, 1841. 1843. (United States. 26th cong. 2d
sess. Senate. Doc. no. 237.).....r570.977 N32

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Report upon the reconnaissance of northwestern Wyoming
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of 1873. 1875.....r570.978 J41

Contents: General report.—Astronomical report, by S. E. Blunt.—Geo-
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waters, by C. L. Heizmann.—Botanical report, by C. C. Parry.—En-
tomological report, by J. D. Putnam.

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meridian. (Wheeler surveys.)

Report upon the United States geographical surveys west
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v.1. Geographical report.

v.2. Astronomy and barometric hypsometry.

v.3 in 2. Geology.

v.4. Paleontology.

v.5. Zoölogy.

v.6. Botany.

v.7. Archæology.

v.8. Tables of geographic positions, azimuths and distances.

Atlases wanting.

"The first volume...is devoted to geography, and contains much material
of high value. App. F., vol.1, is an account of the discovery and
exploration of the western United States from 1500 to 1880, includ-
ing an epitome of a memoir by G. K. Warren on explorations between
1800 and 1857. It is an invaluable aid to careful study of the western
country. A brief abstract is given of various expeditions, with names
of leaders, dates, routes, manner of publication, etc." *Larned's Liter-
ature of American history.*

"By act of March 3, 1879, the Geological and Geographical Survey of
the Territories, the Geographical and Geological Survey of the Rocky
Mountain Region, and the Geographical Surveys West of the One
hundredth Meridian were discontinued, and the United States Geologi-
cal Survey established in their stead."

Alaska

NELSON, Edward W.

Report upon natural history collections made in Alaska, 1877-
1881; ed. by H. W. Henshaw. 1887. (United States.
49th cong. 1st sess. Senate. Mis. doc. no. 156.)...qr570.9798 T86
no.3 of the Arctic series of publications issued in connection with the
Signal service, U. S. army.
Bound with Turner's Contributions to the natural history of Alaska.

TURNER, Lucien M.

Contributions to the natural history of Alaska; results of in-
vestigations made chiefly in the Yukon district and the
Aleutian islands, May 1874-Aug. 1881. 1886. (United
States. 49th cong. 1st sess. Senate. Mis. doc. no.
155.).....qr570.9798 T86
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Signal service, U. S. army.

South America

BALL, John.

Notes of a naturalist in South America. 1887.....570.98 B21

BATES, Henry Walter.

Naturalist on the river Amazons. 1884.....570.98 B31

A record of personal adventures, combined with the observations of a trained student on the great river, the country through which it flows, and the marvels of insect and animal life which abound there. It is written in clear and simple style; is interesting to the general reader as well as to the naturalist.

CUNNINGHAM, Robert Oliver.

Notes on the natural history of the Strait of Magellan and west coast of Patagonia, made during the voyage of H. M.

S. "Nassau," 1866-1869. 1871.....570.983 C92

Oceanica. Polar regions

ANDREWS, Charles W. *and others.*

Monograph of Christmas Island; physical features and geology, with descriptions of the fauna and flora.

1900.570.99 A56

One of the natural history publications of the trustees of the British museum.

"Christmas Island...lies some 200 miles southwest of the western part of Java...The island is of volcanic origin...The report...is believed to be the most elaborate account of the animal and plant life of an oceanic island ever published." *Popular science monthly*, 1900.

MACGILLIVRAY, John.

Narrative of the voyage of H. M. S. Rattlesnake, commanded by Captain Owen Stanley, 1846-1850; including discoveries and surveys in New Guinea, the Louisiade archipelago, etc; to which is added the account of E. B. Kennedy's expedition for the exploration of the Cape York peninsula.

2v. 1852.....570.99 M16

WOODFORD, Charles Morris.

Naturalist among the head-hunters; three visits to the Solomon Islands. 1890.....570.99 W86

ROYAL SOCIETY OF LONDON.

Account of the petrological, botanical and zoological collections made in Kerguelen's Land and Rodriguez during the transit of Venus expeditions, 1874-75. 1879.

(In Royal society of London. Philosophical transactions, v.168.)qr506 R81p v.168

HALL, Charles Francis.

Scientific results of the United States arctic expedition;

Steamer *Polaris*, C. F. Hall commanding. v.1. 1876.

(United States—Navy department.).....qr570.998 H17

v.1. Physical observations, by Emil Bessels.

NANSEN, Fridtjof, *ed.*

Norwegian north polar expedition, 1893-1896; scientific results.

v.1-2. 1900-01.....qr570.998 N12

v.1. Archer, Colin. The Fram.—Pompeckj, J. F. The Jurassic fauna of Cape Flora, Franz Josef Land; with a geological sketch of Cape Flora and its neighbourhood, by Fridtjof Nansen.—Nathorst, A. J. Fossil plants from Franz Josef Land.—Collett, Robert, and Nansen, Fridtjof. An account of the birds.—Sars, G. O. Crustacea.

v.2. Geelmuyden, H. Astronomical observations.—Steen, A. S. Terrestrial magnetism.—Schitz, O. E. Results of the pendulum ob-

servations and some remarks on the constitution of the earth's crust.

571 Prehistoric archæology

For Archæology of special countries, see 913

BLUMENBACH, Johann Friedrich.

Anthropological treatises of Blumenbach, and the Inaugural dissertation of John Hunter on the varieties of man. 1865. (Anthropological society of London. Publications.)...r571 B56
Life and Memoir of Blumenbach, by K. F. H. Marx and M. Flourens, p.1-63.

BOYLE, David.

Notes on primitive man in Ontario; an appendix to the report of the minister of education for Ontario. 1895....r571 B67

CARR, Lucien, & Shaler, N. S.

On the prehistoric remains of Kentucky. (Kentucky—Geological survey. Memoirs.).....qr571 C22

CLODD, Edward.

Childhood of the world. 1893571 C61

Simple account of man in early times. Describes his first tools, dwellings, cooking and pottery, language, writing, counting, etc., and traces his advance from lower to higher stages of religious belief.

The story of primitive man. 1897. (Library of useful stories.).....571 C61s

Selected list of books, p.185-186.

Explains man's place in geologic history and briefly traces him through the stone ages to the age of metals.

FIGUIER, Louis.

Primitive man. 1871.....r571 F47

GEIKIE, James.

Prehistoric Europe. 1881.....r571 G28

Description of the climatic and geographic changes which have taken place since the beginning of the quaternary period.

HÖRNES, Moriz.

Primitive man; tr. fr. the German by J. H. Loewe. 1900.

(Temple primers.)571 H81

Bibliography, p.127-131.

Short elementary history for the general reader.

JOLY, Nicholas.

Man before metals. 1891. (International scientific series.)..571 J38

Treats of the great antiquity of the human race, and of the moral and religious ideas, the customs and industries of man before the use of metals was known to him.

LUBBOCK, Sir John, baron Avebury.

Pre-historic times as illustrated by ancient remains. 1890.....571 L96

First edition appeared in 1865.

"This is, perhaps, the best summary of the evidence now in our possession concerning the general character of Prehistoric Times. . . The work may be regarded as introductory to the same author's 'Origin of Civilization.'" C. K. Adams.

MACLEAN, John Patterson.

Mastodon, mammoth and man. 1880 571 M19

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Manners and monuments of prehistoric peoples. 1892.....571 N11

Comprehensive work, including the discoveries made while the book was in progress (1891).

SCHRADER, Otto.

Prehistoric antiquities of the Aryan peoples. 1890 571 S37

STARR, Frederick.

Some first steps in human progress. 1895. (Chautauqua reading circle literature.) 571 S79
 Popular account of pre-historic man, his occupations, art, knowledge, belief, manners, customs, etc.

WASHINGTON, ANTHROPOLOGICAL SOCIETY.

Transactions, Feb. 10, 1879-Jan. 17, 1882, Nov. 6, 1883-

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ARGYLL, George Douglas Campbell, duke of.

Primeval man; an examination of some recent speculations.

1869 571.04 A69

MITCHELL, Arthur.

Past in the present; What is civilisation? 1880. 571.04 M74

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Memoirs read before the society, 1863-1869. 3v. 1865-70.

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—Index to the publications of the Anthropological institute, 1843-1891, r572 A62j.

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v.1. Hunt, James. On the negro's place in nature.—Peacock, T.B. On the weight of the brain in the negro.—Bollaert, William. Observations on the past and present populations of the new world.—Thurnam, John. On the two principal forms of ancient British and Gaulish skulls.—Bollaert, William. Introduction to the palæography of America.—Pritchard, W.T. Viti and its inhabitants.—Bollaert, William. Some account of the astronomy of the red man of the new world.—Davis, J.B. The Neanderthal skull, its peculiar conformation explained anatomically.—Roberts, G.E. On the discovery of large kist-vaens on the Muckle Heog in the island of Unst (Shetland), containing urns of chloritic schist, with notes on the human remains by C.C. Blake.—Burton, Sir R.F. Notes on certain matters connected with the Dahoman.—Pritchard, W.T. Notes on certain anthropological matters respecting the South Sea islanders (the Samoans).—Sellon, Edward. On the Phallic worship of India.—Bendyshe, T. The history of anthropology.—Thurnam, John. On the two principal forms of ancient British and Gaulish skulls, pt.2.

v.2. Gibb, Sir G.D. Essential points of difference between the larynx of the negro and that of the white man.—Vambery, Arminius. On the dervishes and hadjis of the East.—Harris, J.M. Some remarks on the origin, manners, customs and superstitions of the Gallinas people of Sierra Leone.—Beddoe, John. On the testimony of local phenomena in the west of England to the permanence of anthropological types.—Bollaert, William. Maya hieroglyphic alphabet of Yucatan.—Beavan, H.J.C. Observations on the people inhabiting Spain.—Marshall, G.M. Remarks on genealogy in connexion with anthropology.—Blake, C.C. On certain simious skulls, with especial reference to a skull from Louth in Ireland.—Broca, Paul.—Description of a new goniometer.—Bollaert, William. Contributions to an introduction to the anthropology of the new world.—Pike, L.O. On the psychical characteristics of the English people.—Wesley, W.H. On the iconography of the skull.—Higgins, Alfred. On the orthographic projection of the skull.—Owen, S.R.I. On Hindu neology.—Petrie, George. Notice of the brochs and the so-called Picts' houses of Orkney.—Anderson, Joseph. Report on the ancient remains of Caithness and results of explorations, conducted

- for the Anthropological society of London.—Shortt, John. Description of a living microcephale.—Burton, Sir R.F. Notes on an hermaphrodite.—Sellon, Edward. Some remarks on Indian gnosticism.—Seemann, Berthold.—On the resemblance of inscriptions found on ancient British rocks with those of Central America.—Walker, R.B.N. On the alleged sterility of the union of women of savage races with native males after having had children by a white man.—Westropp, H.M. On the analogous forms of implements among early and primitive races.—Hunt, James. Report on explorations into the archaic anthropology of the islands of Unst, Brassay, and the mainland of Zetland.—Tate, Ralph. Report of Zetland anthropological expedition.—Beddoe, John. On the head-forms of the west of England.—Morris, J.P. Report of explorations conducted in the Kirkhead cave at Ulverstone.—Hunt, James. On the influence of some kinds of peat in destroying the human body, as shown by the discovery of human remains buried in peat in the Zetland islands. On the interpretation of some inscriptions on stones recently discovered in the islands of Brassay.—Bower, John. The history of ancient slavery.—Mitchell, Arthur. Blood-relationship in marriage considered in its influence upon the offspring.
- v.3. Oliver, S.P. The Hovas and other characteristic tribes of Madagascar.—Davis, J.B. Description of the skeleton of an Aino woman and of three skulls of men of the same race.—Thurnam, John. Further researches and observations on the two principal forms of ancient British skulls.—Devis, C.W. Elasticity of animal type.—Gibb, Sir G.D. Vocal and other influences upon mankind of pendency of the epiglottis.—Blake, C.C. Note on the skulls found in the round barrows of the south of England.—Rájendrala'la Mitra. On the gypsies of Bengal.—Wake, C.S. The psychological unity of mankind.—Collinson, John. The Indians of the Mosquito territory.—Lagneau, Gustave. On the Saracens in France, especially in Burgundy and Lorraine.—Bollaert, William. On the ancient, or fossil pottery found on the shores of Ecuador.—Cleghorn, John. Is the character of the Scotch the expression of the soil of Scotland?—Shortt, John. The bayadères or dancing girls of southern India.—Houghton, E.P. On the land Dayas of upper Saráwak, Satah, Lihoy, Letung and Quoss.—Shortt, John. Habits and manners of Marvar tribes of India.—Anderson, Joseph. Report on excavations in Caithness cairns, conducted for the Anthropological society of London.—Blake, C.C. Note on a skull from the cairn of Get, Caithness.—Gibb, Sir G.D. The character of the voice in the nations of Asia and Africa contrasted with that of the nations of Europe.—Bogge, E.B. The fishing Indians of Vancouver's Island.—Anderson, Joseph. On the horned cairns of Caithness.—Ernst, A. Anthropological remarks on the population of Venezuela.—Bollaert, William. Examination of Central American hieroglyphics of Yucatan, including the Dresden codex, the Guatémalien of Paris, the Troano of Madrid, the hieroglyphics of Palenque, Copan, Nicaragua, Veraguas and New Granada, by the recently discovered Maya alphabet.—Blake, C.C. Report on the researches of Edouard Dupont in the Belgian bone-caves on the banks of the river Lesse.—Bollaert, William.—On ancient Peruvian graphic records.—Beddoe, John. On the physical characteristics of the inhabitants of Bretagne.—Davis, J.B. Account of the skull of a Ghiliak.—Beddoe, John. On the headform of the Danes. On the stature and bulk of man in the British Isles.

571.06—571.09 Museums. History

PEABODY MUSEUM OF AMERICAN ARCHÆOLOGY AND ETHNOLOGY.

Reports (1st-date), 1868—date. v.1—date. 1876—date....r571.06 P33
MACLEAN, John Patterson.

Archæological collection of the Western reserve historical society. 1901. (Western reserve historical society. Tract,

v.4, no.90.).....r571.07 M19

This collection of stone implements, mostly palæoliths and neoliths, is one of the finest in America. The catalogue contains descriptions of the various relics, with illustrations.

MONTELIUS, Oscar.

Civilization of Sweden in heathen times. 1888.....571.09 M85

NILSSON, Sven.

Primitive inhabitants of Scandinavia; an essay on comparative ethnography; containing a description of the implements, dwellings, tombs and mode of living of the savages in the north of Europe during the stone age. 1868....r571.09 N35

571.1 Stone age

HUTCHINSON, Henry Neville.

Prehistoric man and beast. 1897571.1 H97

EVANS, John.

Ancient stone implements, weapons and ornaments of

Great Britain. 1872.....r571.2 E94

571.6 Primitive art and industry

BAYE, J. de, baron.

Industrial arts of the Anglo-Saxons. 1893.....qr571.6 B33

MASON, Otis Tufton.

Woman's share in primitive culture. 1894. (Anthropological series.).....571.6 M45

"Written in exemplification of the fact that the beginnings of all the great industrial arts are due to woman. . . It was the gradual pressure of her insistence upon the value of the product of her first planted food-grains which turned mankind from the nomadic savage into the settled tiller of the soil. Only after the necessity of warfare had grown less urgent . . . did the arts of peace become the province of men. . . The more than equal share played by woman in the invention and spread of language has not been elsewhere set forth with so much clearness." *Nation*.

GROSSE, Ernst.

Beginnings of art. 1897. (Anthropological series.).....571.7 G93

SWAN, James Gilchrist.

The Haidah Indians of Queen Charlotte's Islands, British Columbia, with a brief description of their carvings, tattoo designs, etc. 1874. (Smithsonian institution.

Contributions to knowledge.).....qr594.1 L44

Bound with the index volume of Observations on the genus unio, by Isaac Lea.

EVANS, Arthur John.

Cretan pictographs and prae-Phoenician script. 1895..qr571.71 E94

571.8 Prehistoric dwellings

KELLER, Ferdinand.

Lake dwellings of Switzerland and other parts of Europe.

2v. 1878.....r571.83 K16

v.1. Text. v.2. Plates.

CHAPIN, Frederick Hastings.

Land of the cliff-dwellers. 1892.....571.84 C36

Attractive description of two summers' experiences in New Mexico and southern Colorado, prefaced by a short account of the discovery and development of this novel country. Fully illustrated.

NORDENSKIÖLD, Gustav.

Cliff dwellers of the Mesa Verde, southwestern Colorado;

their pottery and their implements; tr. by D. L. Morgan.

1893.qr571.84 N43

"In order to trace...the development of the cliff-dweller culture, I append a survey of the ruins in the South-western States akin to the cliff-dwellings of the Mesa Verde, a description of the Moki Indians, the descendants of the ancient Pueblo tribes, and an account, based on the relations of the first Spanish explorers, of the manners and customs of the agricultural town-building Indians of the middle of the sixteenth century. A special part of the work is devoted to a description by Prof. G. Retzius of the crania found during the excavations." *Author's preface.*

571.9 Mounds and mound builders

PRIEST, Josiah, *comp.*

American antiquities and discoveries in the West; the evidence that an ancient population peopled America before its discovery by Columbus, with a description of their works. 1833.r571.9 P94

CARR, Lucien.

Mounds of the Mississippi valley. [1883.] (Kentucky—Geological survey. Memoirs.)q571.91 C22
The same. (In Smithsonian institution. Annual report, 1891, pt. I, p. 503-599.)r506 S66 v.46

FOSTER, John Wells.

Pre-historic races of the United States. 1873.r571.91 F81

McADAMS, William.

Records of ancient races in the Mississippi valley.
 1887.qr571.91 M11

MACLEAN, John Patterson.

Mound builders, with an investigation into the archæology of
 Butler county, Ohio. 1893.571.91 M19

MOOREHEAD, Warren King.

Primitive man in Ohio. 1892.571.91 M87
 Result of several years' work, and the explorations of 107 mounds, graves
 and cemeteries.

PIDGEON, William.

Traditions of De-coo-dah and antiquarian researches; extensive explorations, surveys and excavations of the earthen
 remains of the mound-builders. 1858.r571.91 P55

SQUIER, Ephraim George, & Davis, E. H.

Ancient monuments of the Mississippi valley. 1847. (In
 Smithsonian institution. Contributions to knowledge,
 v. I.)qr506 S66c v.1

THOMAS, Cyrus.

Cherokees in pre-Columbian times. 1890.571.91 T37
The same. 1890.r571.91 T37
 Report on the mound explorations of the Bureau of ethnology. 1894. (In United States—Ethnology bureau. Annual report, v. 12, p. 3-730.)qr572.05 U25 v.12

GREENWELL, William.

British barrows; a record of the examination of sepulchral
 mounds in various parts of England, with description of

figures of skulls, and general remarks on prehistoric crania, by George Rolleston. 1877.....r571.92 G85

572 Ethnology

BALDWIN, John Denison.

Pre-historic nations. 1874.....r572 B19

Contents: Suggestions relative to the current chronologies, the relation of Hellas to civilization, and the meaning of pre-historic times.—Pre-historic greatness of Arabia.—The Phœnicians.—Cushite or Arabian origin of Chaldea.—India, Sanskrit and ante-Sanskrit.—Egypt previous to Menes.—Africa and the Arabian Cushites.—Western Europe in pre-historic times.

BRINTON, Daniel Garrison.

Races and peoples; lectures on the science of ethnography.

1890.572 B75

The same. 1890.....r572 B75

DENIKER, Joseph.

Races of man; an outline of anthropology and ethnography.

1901. (Contemporary science series.).....572 D42

HABERLANDT, Michael.

Ethnology. 1900. (Temple primers.)572 H11

"Literary sources and references," p.168-169.

HADDON, Alfred Cort.

The study of man. 1898. (Science series.)572 H12

Contents: Measurements and their importance in anthropology.—Hair and eye colour.—The value of head-form in anthropology.—The nose.—The ethnography of the Dordogne district.—The evolution of the cart.—The origin of the Irish jaunting-car.—Toys and games: cat's cradle and kites.—Toys and games: tops and the tug-of-war.—The bull-roarer.—The singing games of children.—"London bridge:" foundation sacrifice.—"Draw a pail of water:" water worship.—Courting games.—Funeral games.—Practical suggestions for conducting ethnographical investigations in the British islands.

HERDER, Johann Gottfried von.

Ideen zur geschichte der menschheit. 3v. 1869. (Bibliothek der deutschen nationalliteratur.).....r572 H46

HUTCHINSON, Henry Neville, and others.

Living races of mankind; an account of the customs, habits, pursuits, feasts & ceremonies of the races of mankind throughout the world. 2v. [1901.].....q572 H96

"This work does not profess to deal with ethnological or philological questions. Its plan is geographical, and while its letterpress is adequate, its great distinction is in the remarkable collection of photographs with which it is illustrated." *Spectator*, 1901.

KEANE, Augustus Henry.

Ethnology. 1896.....572 K14

KEARY, Charles Francis, ed.

The dawn of history; an introduction to pre-historic study.

1898572 K15

Sums up results of prehistoric inquiry in chapters on earliest traces of man, growth of language, earliest social life, religion, writing, etc. As a study of the early growth in culture of the primeval nations of the earth, this work is important in laying the foundation to a broad course of historical study. Although profound in treatment, the style is clear and readable.

MORGAN, Lewis Henry.

Ancient society; or, Researches in the lines of human progress

from savagery through barbarism to civilization. 1878.572 M89

Contents: Growth of intelligence through inventions and discoveries.—

Growth of the idea of government.—Growth of the idea of the family.

—Growth of the idea of property.

"The most important work of one of the most distinguished American ethnologists...The author is in hearty sympathy with the theory that the human race has ascended from very primitive beginnings, rather than descended from a condition of superior morality and intelligence."

C. K. Adams.

PESCHEL, Oscar.

Races of man and their geographical distribution. 1898.572 P45

Larger part of the book treats of the various mental and physical characteristics of mankind. The remainder gives a detailed review of the races and tribes, and contains a mass of information about tribal divisions, habits, languages, myths and migrations.

"Although unequal in treatment, and in many respects imperfect, it exhibits much labor and research, and treats in more or less detail every branch of the...science of anthropology." *A. R. Wallace*, 1876.

RATZEL, Friedrich.

History of mankind. 3v. 1896-98.q572 R22

The same. 3v. 1896-98.qr572 R22

The third and final volume is largely given up to an account of the so-called cultured races of Europe, Asia and Africa.

RECLUS, Élie Armand Ebenhezer.

Primitive folk; studies in comparative ethnology. [1891.]

(Contemporary science series.)572 R26

Contents: The Hyperboreans, hunters and fishers.—The eastern Inuits.

—The western Inuits.—The Apaches, nomad hunters and brigands.—

The Nairs, warrior nobility and the matriarchate.—The mountaineers

of the Neigherries, herdsmen, agriculturists and woodlanders.—Todas,

Badagas, Cotas, Irulas and Curumbas.—The Kolarians of Bengal and

human sacrifices amongst the Khonds.

SAYCE, Archibald Henry.

Races of the Old testament. 1891. (By-paths of Bible

knowledge.)572 S27

Short study in ethnology based largely on Mr Flinders Petrie's casts and photographs of types.

STARCKE, C.N.

Primitive family in its origin and development. 1894. (International scientific series.)572 S79

List of the works to which reference is made, p.301-310.

Largely criticism and discussion of various theories.

UNITED STATES—Ethnology bureau.

Annual report (1st-date), 1879/80-date. 1881-date.qr572.05 U25

v.14 is bound in two parts.

For a list of the accompanying papers see contents book, p.156; kept at the reference desk.

"Series of volumes on American ethnology abundantly illustrated. Attention is given almost entirely to the natives of North America, their arts, architecture, customs, myths and rites. The object is to gather all possible information concerning our native tribes while it can be done. The sign language, pictography, burial mounds, religious rites, stone implements, etc., are described in the greatest detail. These papers are the result of original investigation and must always be one of the best sources of information on the subjects treated. Many of them are, however, far too long." *Larned's Literature of American history.*

Bulletin. no.1, 4-6, 9-24, 26. 1887-1901.r572.05 U25b

no.1. Bibliography of the Eskimo language, by J. C. Pilling.

no.4. Work in mound exploration of the Bureau of ethnology, by Cyrus Thomas.

no.5. Bibliography of the Siouan languages, by J. C. Pilling.

- no.6. Bibliography of the Iroquoian languages, by J. C. Pilling.
- no.9. Bibliography of the Muskogean languages, by J. C. Pilling.
- no.10. Circular, square and octagonal earthworks of Ohio, by Cyrus Thomas.
- no.11. Omaha and Ponka letters, by J. O. Dorsey.
- no.12. Catalogue of prehistoric works east of the Rocky mountains, by Cyrus Thomas.
- no.13. Bibliography of the Algonquian languages, by J. C. Pilling.
- no.14. Bibliography of the Athapascan languages, by J. C. Pilling.
- no.15. Bibliography of the Chinookan languages, by J. C. Pilling.
- no.16. Bibliography of the Salishan languages, by J. C. Pilling.
- no.17. The Pamunkey Indians of Virginia, by J. G. Pollard.
- no.18. The Maya year, by Cyrus Thomas.
- no.19. Bibliography of the Wakashan languages, by J. C. Pilling.
- no.20. Chinook texts, by Franz Boas.
- no.21. An ancient quarry in Indian Territory, by W. H. Holmes.
- no.22. Siouan tribes of the East, by James Mooney.
- no.23. Archeologic investigations in James and Potomac valleys, by Gerard Fowkes.
- no.24. List of the publications of the Bureau of ethnology with index to authors and subjects, by F. W. Hodge.
- no.26. Kathlamet texts, by Franz Boas.

572.4 Atlantis

DONNELLY, Ignatius.

Atlantis; the antediluvian world. 1882.....572.4 D72

Attempts to prove that the fabled island of Atlantis really existed, that it was the cradle of the human race and that it perished in a great convulsion of nature, a description of which has come down to us in the story of the deluge. This hypothesis he upholds with much ingenuity.

ELLIOT, W.Scott.

Story of Atlantis; a geographical, historical and ethnographical sketch. 1896572.4 E52

Atlantis, a mythical island in the Atlantic ocean, referred to by Plato and other ancient writers, is said to have disappeared with all its inhabitants in a convulsion of nature. This treatise is written by a theosophist who claims to have derived minute information about the island and its people by means of astral clairvoyance.

572.8—572.9 Special races

MUNRO, John.

Story of the British race. 1899. (Library of useful stories.)572.82 M96

Presentation for the general reader of the views of modern anthropologists, and of the results of their careful observations which have cast new light on the real nature of the British people.

MORRIS, Charles.

The Aryan race; its origin and its achievements. 1892..572.891 M91

TAYLOR, Isaac.

Origin of the Aryans. 1892. (Contemporary science series.)572.891 T25

STARR, Frederick.

Strange peoples. 1901. (Ethno-geographic readers, no.1.)...572.9 S79

List of books regarding strange peoples, p.185-186.

RIPLEY, William Zebina.

Races of Europe, a sociological study; Lowell institute lectures; accompanied by A supplementary bibliography of the anthropology and ethnology of Europe, published by the Public library of Boston. 2v. 1899.....572.94 R48
A description of the present living population of Europe from the stand-

point of the physical anthropologist, showing the influence exerted upon man by his geographical environment. Aims to give scientific data respecting the origin and migrations of European peoples.

SERGI, Giuseppe.

Mediterranean race; a study of the origin of European peoples. 1901. (Contemporary science series.).....572.94 S48

AMMON, Otto.

Zur anthropologie der Badener; bericht über die von der anthropologischen kommission des Karlsruher altertumsvereins an wehrpflichtigen und mittelschülern vorgenommenen untersuchungen. 1899.....qr572.943 A52

ABERCROMBY, John.

Pre- and proto-historic Finns, both eastern and western.
2v. 1898.....572.947 A14
Bibliography, v.1, p.14-22.

STARR, Frederick.

Indians of southern Mexico; an ethnographic album;
[plates]. 1899.....qr572.972 S79i
Selected from a collection of photographs taken by the author during three expeditions to Mexico in 1896, 1898 and 1899. Text is simply explanatory. Of value to students of ethnography.

MURDOCH, John, b. 1852.

Ethnological results of the Point Barrow expedition.
1892. (In United States—Ethnology bureau. Annual report, v.9, p.3-441.).....qr572.05 U25 v.9
List of works consulted, p.20-25.

MEYER, Adolf Bernhard.

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"It marshals many of the curiosities of botanical science for the information of the beginner, and is written in fairly popular style, although unhesitating use is made, when necessary, of scientific terminology. The illustrations are satisfactory. The book may be commended to those who wish to learn something substantial of botany without attacking the technical manuals." *Dial*.

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The writer's actual experiences in her search for wild growths of field and forest. Set in the frame of a slender story and all aglow with imagination and true love of nature. Contains many full page plates of unusual beauty.

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ing some of the common forms of vegetation. 1898....580.7 B16
 May be used as a text book in secondary schools, though the author hopes that to both pupil and teacher its principal service will be in the suggesting of methods of nature study which he defines to be "seeing the things which one looks at, and the drawing of proper conclusions from what one sees."

BAILEY, William Whitman.

Botanizing; a guide to field-collecting and herbarium work.

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Philosophical and trustworthy work on the history of botanical science.
 Adapted to the general reader and the advanced student.

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Story of the plants. 1898. (Library of useful stories.).....581 A42

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First studies of plant life. 1902581 A87

Simple, practical and well illustrated studies of the life processes of plants, intended as a text-book. With the teacher's aid, the book will be comprehensible to children of even the lower grades.

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Botany; an elementary text for schools. 1900581 B16b

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Foundations of botany. 1901581 B45

"Outcome of many years of practical experience in teaching botany...

Appended to the text-book is a partial flora...including some seven hundred flowering plants selected from those most available in spring-time in our northeastern and middle states." *American journal of science*, 1901.

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- Catalogue of the described coleoptera of the United States;
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BUTLER, Edward Albert.

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Describes in detail all the butterflies known to exist in North America east of the Mississippi excepting such as are found only in the unsettled parts of Canada or the South. Special attention is paid to the distribution, habits and life histories of the butterflies. It contains nearly a hundred plates, (many of them colored) representing butterflies, eggs, caterpillars, nests, chrysalids, parasites, etc.

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- v.4. Matériel et procédés généraux de la mécanique.
- v.5. Électricité.
- v.6. Génie civil.—Moyens de transport.
- v.7-8. Agriculture.
- v.9. Horticulture et arboriculture.
- v.10. Forêts.—Chasse.—Pêche.—Cueillettes.
- v.11. Aliments.
- v.12. Agriculture.—Aliments.
- v.13. Mines.—Métallurgie.
- v.14. Décoration et mobilier des édifices publics et des habitations.
- v.15. Fils, tissus, vêtements.
- v.16. Industrie chimique.
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- v.2. Reports of the president, secretary and executive committee, with the journal of the final session of the commission.
- v.3. Reports and awards, groups 1-2.
- v.4. Reports and awards, groups 3-7.

- v.5. Reports and awards, groups 8-14.
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- v.7. Reports and awards, groups 21-27.
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1899qr608.42 E64d
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- The same*; new series with illustrations, 1877-1900. 1877-
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- The unbound or current numbers contain also the "Illustrated abridg-
ments."
- Illustrated official journal (patents), abridgments of
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- This annual index is made up of 3 parts; part 1, Index to names of
applicants; part 2, Index of designs; part 3, Number index of pro-
ceedings advertised on complete specifications and patents.
- Since 1888 the annual index has been issued as part 1 of the "Official
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- Quarterly and weekly indexes are also published in the "Official
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GERMANY—Kaiserliches patentamt.

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The same; ergänzungsband.....qr608.43 G32a

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Verzeichniss der patente, July 1, 1877–date. v.1–date. 1879–

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Description des machines et procédés consignés dans les brevets d'invention, de perfectionnement et d'importation dont la durée est expirée, et dans ceux dont la déchéance a été prononcée, 1791-1843. v.1-82. 1811-54qr608.44 F86a

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The same; nouvelle série, 1871-date. v.1-date. 1874-dateqr608.44 F86d

———Subject-matter index of patents for inventions (brevets d'invention) granted in France from 1791 to 1876; compiled by the U. S. patent office. 1883qr608.44 F86
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Machines et inventions approuvées par l'Académie royale des sciences, avec leur description par M. Gallon. 7v.

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RECUEIL spécial des brevets d'invention. v.27-date. 1880-dateqr608.493 B39

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SWITZERLAND—Eidgenössisches amt für geistiges eigenthum.

Patente; jahres-publikationen des Eidg. amtes für geistiges eigenthum, Nov. 1888-date. 1er jahrgang-date. 1890-dater608.494 S97

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Proceedings and addresses at the celebration of the beginning of the 2d century of the American patent system at Washington, April 1891. 1892r608.73 P29

UNITED STATES—Patent office.

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- The records of patents since 1871 will be found in the "Specifications and drawings of patents," issued monthly, and in the "Official gazette," issued weekly.
- The report of the commissioner of patents since 1871 is merely a very brief administrative report of the work of the office, and is bound with the annual index to the "Official gazette."
- Prior to 1862, when the Department of agriculture was established, the report on agriculture was published by the commissioner of patents and forms a part of his Annual reports.
- Decisions of the commissioner of patents and of United States courts in patent cases, 1895-date. 1896-date. .r608.73 U25d
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- Official gazette; containing the patents, trade-marks, designs and labels issued [each week]; weekly. v.1-date.
1872-dateqr608.73 U25a2
- The record of patents issued before 1871 will be found in the "Report of the commissioner of patents," r608.73 U25a.
- An annual index to the Gazette also indexes the "Specifications and drawings of patents." The title of the index reads "Annual report of the commissioner of patents."
- An appendix contains the "Decisions of the commissioner of patents and of the United States courts in patent cases."
- The Gazette contains merely the claims of the patentee accompanied by one drawing. The specifications and more elaborate drawings are contained in the volume of "Specifications and drawings," r608.73 U25a3.
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- The same*; revised January 2, 1903. 1903.r608.73 U25r
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- The drawings and specifications before 1871 are contained in the "Annual reports of the commissioner of patents," r608.73 U25a.
- Issued in weekly volumes from May 30, 1871 to July 1872 and in monthly volumes from July 1872 to date. Since June 1885 the volumes have been in 2 parts; the drawings being contained in the 2d part.
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609 History of useful arts and inventions

BAKER, Ray Stannard.

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- Contents:* A voyage on the bottom of the sea.—Liquid air.—Telegraphing without wires.—The modern motor vehicle.—X-ray photography.—Tailless kites.—The story of the phonograph.—The modern skyscraper.—Through the air.

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BECKMANN, Johann.

- History of inventions, discoveries and origins. 2v. 1892...609 B36
- Gives the origin and history of many materials, utensils and processes used in the mechanic arts and for domestic purposes, and is a mine of curious and useful information. It was written toward the end of the eighteenth century, but some parts have been brought down to a later date.

BUTTERWORTH, Benjamin, *comp.*

Growth of industrial art. 1892.....qr609 B98

Pictures and brief text showing the origin and development of all sorts of utensils and machines. Compiled by the commissioner of patents, by order of Congress.

BYRN, Edward Wright.

Progress of invention in the 19th century. 1900.....609 B99

Popular, well-illustrated compilation from the Patent office records, of the various steps by which the more important inventions have reached their present perfection. Gives the numbers of all patents to which reference is made.

DEPEW, Chauncey Mitchell, *ed.*

One hundred years of American commerce, 1795-1895, by

100 Americans. 2v. 1895.....qr609 D43

HALE, Edward Everett.

Stories of invention. 1891.....j609 H15

Contents: Archimedes.—Friar Bacon.—Benvenuto Cellini.—Bernard Palissy.—Benjamin Franklin.—Theorists of the 18th century.—James Watt.—Robert Fulton.—George Stephenson and the locomotive.—Eli Whitney.—James Nasmyth.—Sir Henry Bessemer.—The last meeting.

ILES, George.

Flame, electricity and the camera; man's progress from the first kindling of fire to the wireless telegraphy and the

photography of color. 1900.....609 I22

Outlines the chief uses of fire, electricity and photography. Argues that electricity means as much for human progress as flame, and recites how it has begun to supplant flame in important tasks. Shows that the camera marks a radical departure in depiction, superseding the pencil and brush in many directions, and representing much not otherwise to be portrayed. The rapid flowering and utilization of these resources is emphasized; the author holds that similar "leaps" long ago divided man from his next of kin.

MASON, Otis Tufton.

Origins of invention; a study of industry among primitive

peoples. 1895. (Contemporary science series.).....609 M45

Contents: Tools and mechanical devices.—Invention and uses of fire.—Stone-working.—The potter's art.—Primitive uses of plants.—The textile industry.—War on the animal kingdom.—Capture and domestication of animals.—Travel and transportation.—The art of war.

Traces some of our modern industries to their origins, and shows how the genius of man, working upon and influenced by the resources and the forces of nature, learned its first lessons in the art of inventing.

MOWRY, William Augustus, & Arthur May.

American inventions and inventors. 1900.....,.....j609 M94

Written very simply for children from ten to twelve years old. Modern inventions are considered in the order of heat, light, food, clothing, travel and letters.

NAPIER, James.

Manufacturing arts in ancient times. 1879.....r609 N12

Attempts to arrive at the state of manufactures and metallurgy among ancient peoples by a study of the references to these subjects in the Old testament. Napier wrote from a practical knowledge of manufacturing and metallurgical processes.

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JACKSON, Dugald Caleb.

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Jan. 1901. 1901.....621.7 E64

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SHARP, John.

Modern foundry practice; dealing with the green-sand, dry-sand and loam moulding processes, the materials used, also detailed descriptions of the machinery and other appliances employed. 1900.....621.72 S53

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KIRK, Edward.

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Contains a number of well-illustrated examples.

DINGEY, Peter Spear.

Machinery pattern making. 1898.....621.744 D61

Not a connected treatise, but practical directions for constructing a number of important patterns which illustrate principles of general applicability. Includes full size profiles of the usual gear teeth.

ROSE, Joshua.

Pattern maker's assistant, with a collection of useful tables.

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Practical manual of the making of foundry patterns. Describes the tools required and their use, and methods of making patterns for pipes, pulleys, columns, gear-wheels, etc.

621.8 Mill-work. Mechanism of transmission

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Modern shafting and gearing and the economical transmission of power. 1893.....621.8 B19

KERR, E. W.

Power and power transmission. 1902.....621.8 K21

Contents: Machinery and mechanics.—Steam power.—Pumps, gas-engines, water-power, compressed air, etc.

"Author does not...presume to have presented much that is new but rather a collection of such principles and information as would direct the beginner along the proper course of study." *Preface.*

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REULEAUX, Franz.

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BUCHANAN, L. A.

Gear chart for the use of draughtsmen, pattern-makers, machinists and machine designers. 1897.....qr621.83 B84

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CO. *pub.*

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HALL, Willis Edward.

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of their apprentices. Contains instructions for the proper handling of machine tools with regard to the safety of both the operator and the machine. Explains how to do different kinds of work, and also how not to do them.

BROWN & ZORTMAN MACHINERY CO.

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CLEAVES, A. H.

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FISCHER, Hermann.

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Very complete work on shop machinery, illustrated by a large number of drawings of the best German models.

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Advanced metal-work; lessons on the speed-lathe, engine-lathe, and planing-machine. v.1. 1898.....621.94 C73
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HASLUCK, Paul Nooncree.

Lathe-work. 1894.....621.94 H33

HORNER, Joseph Gregory.

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LUKIN, James.

Turning for amateurs; descriptions of the lathe and its attachments621.94 L97

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Practical lessons in metal turning; a handbook for young engineers and amateur mechanics. [1900.].....621.94 M41

Contents: Tools and tool-holders.—Measuring appliances.—Chucks and mandrels.—How to centre work for the lathe.—Driving work between centres.—Chuck and face plate work.—Drilling and boring in the lathe.—Screw-cutting.

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Treatise on the construction and use of milling machines.

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SMITH, Oberlin.

Press-working of metals. 1896.....621.98 S65

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Well-written description of stamping and drawing methods, by a practical engineer.

MARTIN, W. A.

Screw-cutting tables for the use of mechanical engineers; showing the proper arrangement of wheels for cutting the threads of screws of any required pitch, with a table for making the universal gas-pipe threads and taps.

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Lectures on mining, delivered at the School of mines,

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- GREENWELL, George C.
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- LOCK, Charles G. Warnford.
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Miner's handbook; a handy book of reference on the subjects of mineral deposits, mining operations, ore dressing, etc. 1894.....622 M71
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Practical manual of minerals, mines and mining, comprising suggestions as to the localities and associations of the useful minerals, description of methods for analyses and hints upon the operations of mining, including architecture and construction. 1895.....622 O29

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Story of the mine as illustrated by the great Comstock lode of Nevada. 1896. (Story of the West series.).....622 S55

Mr Shinn has chosen the development of the Comstock lode as typical of the whole subject and in connection with his special topic has chapters on mine litigation, the mining community, stock speculation and various mining problems in general. With all these he gives us picturesque glimpses of the motley crowd of prospectors, miners, speculators and camp followers.

"The book will appeal to readers who have seen something of the regions or the life it so vividly portrays, as well as to those who seek clear information concerning the most important factor in the development of the Western half of the great American continent." *Dial*, 1896.

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Encyclopedia of Mexican mining law; a digest of the Mexican mining code, with the explanatory circulars and subsidiary laws, decrees and enactments, including the laws for taxation and exportation of the precious metals. 1900.....r622.007 C44
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Statist's mines of the Transvaal. 1900.....r622.009 M11

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Contents: Statement by the minister of mines.—Report on the gold-fields.—Wardens' reports.—Report on coal-mines.—Mining reserves: Westland and Nelson.—Geology; general report and reports of special examinations.

OHIO—Mines inspector.

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ONTARIO—Mines bureau.

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Transactions, May 1871-date. v.1-date. 1873-date.....r622.05 A51

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BAKER, Moses Nelson.

Sewerage and sewage purification. 1896.....628.2 B17

BAUMEISTER, Reinhard.

Cleaning and sewerage of cities. 1895.....628.2 B32

BROWN, George Preston.

Drainage channel and waterway; a history of the effort to secure an effective and harmless method for the disposal of the sewage of Chicago, and to create a navigable channel between Lake Michigan and the Mississippi river. 1894.....628.2 B78
Bibliography, p.465-466.

FOLWELL, Amory Prescott.

Sewerage; the designing, construction and maintenance of sewerage systems. 1903.....628.2 F71

The same. 1898.....r628.2 F71

GRAY, Samuel M.

Proposed plan for a sewerage system for the city of Providence, R. I. 1884.....r628.2 G81
Made by order of the city council of Providence.

MOORE, E. C. S.

Sanitary engineering; a practical treatise on the collection, removal and final disposal of sewage and the design and construction of works of drainage and sewerage. 1898r628.2 M87
"List of authorities," p.21-24.

SAVAGE, Edward Ballard.

Sewerage and sewage disposal of a small town. [1895.]...628.2 S26

WARING, George Edwin.

Sewerage and land-drainage. 1896.....qr628.2 W22s

STALEY, Cady, & Pierson, G. S.

Separate system of sewerage. 1899.....628.21 S78

The same. 1891.....r628.21 S78

OGDEN, Henry Neely.

Sewer design. 1899.....628.24 O17
"Valuable as a clear, up-to-date presentation of the scattered material of the subject." *Municipal engineering*, 1899.

628.3 Disposal of sewage

BARWISE, Sidney.

Purification of sewage; a brief account of the scientific principles of sewage purification and their practical application. 1899.....628.3 B28
Deals with the subject from a biological and chemical point of view.

CORFIELD, William Henry.

Treatment and utilisation of sewage. 1887.....628.3 C81

DIBDIN, William Joseph.

Purification of sewage and water. 1897.....628.3 D54

HAEFCKE, Hermann.

Städtische und fabrik-abwässer; ihre natur, schädlichkeit und reinigung. 1901. (Hartleben's chemisch-technische bibliothek.)r628.3 H13

"Literatur-verzeichniss," p.13-16.

Summarizes present (1901) practice in concise form.

KIERSTED, Wynkoop.

Discussion of the prevailing theories and practices relating to sewage disposal. 1894.....628.3 K25

RAFTER, George W. & Baker, M. N.

Sewage disposal in the United States. 1900.....qr628.3 R14

Contents: Preliminary discussion.—The infectious diseases of animals.

—On the pollution of streams.—The self-purification of running

streams and the rational view in relation to the disposal of sewage

by discharge into tide-water.—The composition of sewage muds.—Legal

aspects of the case.—Quantity of sewage and variation in rate of flow.

—General data of sewage disposal.—Discharge into tidal or other

large bodies of water.—On nitrification and the nitrifying organism.—

Chemical precipitation.—Broad irrigation.—On silos and their use in

sewage farming.—Intermittent filtration.—Sub-surface irrigation.—The

disposal of manufacturing wastes.—On the temperature of the air and

of natural soils, and its relation to sewage purification by broad irri-

gation and intermittent filtration.—On beggiatoa alba and its relation

to sewage effluents.—The effect of the pollution of streams by manu-

facturing wastes upon the life of fish.—Descriptions of works.

RIDEAL, Samuel.

Sewage and the bacterial purification of sewage. 1900...q628.3 R43

Excellent résumé of modern methods.

ROBINSON, Henry.

Sewerage and sewage disposal. 1896.....628.3 R55

The same. 1896.....r628.3 R55

WARING, George Edwin.

Modern methods of sewage disposal. 1896.....628.3 W22

The same. 1896.....r628.3 W22

Sanitary condition of city and country dwelling houses.

1898. (Van Nostrand's science series.).....628.3 W22s

DENTON, Eardley Fraser Bailey.

Sewage purification brought up to date, 1896. 1896.....628.36 D43

628.4 Municipal sanitation. Street cleaning

MAXWELL, William H.

Removal and disposal of town refuse. 1898.....628.4 M52

WARING, George Edwin.

Observations on street-cleaning methods. 1898.....628.4 W220

Contents: Observations on street-cleaning methods in European cities.—

Review of the general work of the Department of street cleaning of

New York.—Report of the snow inspector.—The adjustment of labor

questions by the "Committee of 41" and the "Board of conference."

Supplement to "Municipal affairs," v.2, no.2.

Street-cleaning and the disposal of a city's waste; methods and results and the effect upon public health, public morals and municipal prosperity. 1898.....628.4 W22

Chiefly a description of Col. Waring's work as head of the Department of street cleaning of New York. Contains also notes on street cleaning in the larger European cities.

GOODRICH, W. Francis.

- Economic disposal of towns' refuse. 1901. (Engineering times library.).....628.44 G62
 "Works consulted," p.321-322.
 Chiefly a treatise on the design, construction and operation of refuse destructors. Summarizes the practice in all parts of the world.

628.53 Smoke abatement

COAL SMOKE ABATEMENT SOCIETY.

- Annual report, balance sheet and list of subscribers.
 1899r628.53 C62

COMMITTEE FOR TESTING SMOKE PREVENTING APPLIANCES.

- Report, 1895.....qr628.53 C73
 Gives the results of carefully organized tests of various methods of hand and mechanical stoking, showing the value for both steam generation and smoke prevention.

LEIGH, John.

- Coal-smoke; report to the health and nuisance committees of the corporation of Manchester, Eng. 1883.....r628.53 L56

MANCHESTER AND SALFORD NOXIOUS VAPOURS ABATEMENT ASSOCIATION.

- Air pollution lectures; 1st-4th ser. no.1-5, 7, 9-10, 12, 15, 20, in 1. 1887-93.....r628.53 M32
Contents: no.1. Noxious vapours which pollute the air, by J. C. Bell.—no.2. Pure air and how to obtain it, by A. Ransome.—no.3. A piece of coal and what becomes of it, by G. E. Davis.—no.4. Why the air of Manchester is so impure, by Charles Estcourt.—no.5. Physical effects of air pollution, by C. G. K. Gillespie.—no.7. The pollution of air as affecting the architect and his work, by John Holden.—no.9. Air pollution as affecting plant life, by Robert Holland.—no.10. Some common sources of air pollution, by William Thomson.—no.12. Flame and smoke, by Thomas Fletcher.—no.15. The nuisance of smoke from domestic fires and methods of abating it, by T. C. Horsfall.—no.20. Some considerations of the effects of air pollution on health, by A. E. Pownall.

No more published.

POPPELWELL, William Charles.

- Prevention of smoke combined with the economical combustion of fuel. 1901.....628.53 P81
Contents: Fuels and combustion.—Combustion in ordinary hand-fired boilers.—Stoking by mechanical means.—Powdered fuel firing.—Gaseous fuel.—The testing of boilers, and smoke observations.—Some standard smoke tests.—The legal aspect of the smoke question.—The means to be adopted for lessening the smoke in our atmosphere.

SEINE, DÉPARTEMENT DE LA—Préfecture.

- Concours pour la suppression des fumées produites par les foyers de chaudières à vapeur; rapport de la Commission technique.....qr628.53 S46
 Account of an exceedingly thorough set of tests of various smoke-consuming devices made in 1894-97. Typical specimens of the various classes were given long working trials. Probably the most complete investigation yet made (1901).

628.6 House sanitation. House drainage

BROWN, Glenn.

- Healthy foundations for houses. 1885.....628.6 B78h
 Reprinted from the "Sanitary engineer."

- Water-closets; a historical, mechanical and sanitary treatise. 1884.....628.6 B78
 Chiefly a republication of a series of articles in the "American architect and building news," 1883.
- COLEMAN, Thomas Everit.
 Sanitary house drainage; a handbook for architects, engineers and builders. 1896.....628.6 C68
 Series of articles which appeared in "Building news."
 "Gives the sanitary principles underlying the correct design of domestic drainage systems."
- CORFIELD, William Henry.
 Dwelling houses; their sanitary construction and arrangements. 1880.....628.6 C81
 Reprinted from "Van Nostrand's magazine."
- DOMESTIC house planner and sanitary architect; papers on the principles of house planning and arrangement and of sanitary construction, by practical writers. 1891....628.6 D71
- GERHARD, William Paul.
 House-drainage and sanitary plumbing. 1890.....628.6 G31
 Concise statement of the rules to be followed and the means and devices which should be used. Intended for both professional plumbers and laymen.
- MAGUIRE, William R.
 Domestic sanitary drainage and plumbing. 1896.....628.6 M25
 Handbook for plumbers, dealing with all forms of work for dwellings.
 Author is (1896) teacher of plumbing in the City and guilds of London institute.
- POORE, George Vivian.
 The dwelling house. 1897.....628.6 P81
 Author is a physician and considers his subjects from the sanitary and hygienic point of view, suggesting improvements in drainage, ventilation and the disposal of refuse.
- TEALE, Thomas Pridgin.
 Dangers to health, domestic sanitary defects. 1883.....628.6 T26
The same. 1881.....628.6 T26d
 Diagrams illustrating dangerous defects in domestic plumbing.
- WARING, George Edwin.
 How to drain a house; practical information for house-holders. 1895.....628.6 W22
 "In the author's clear and practical style. He wastes no time in the discussion of varieties of method, but dogmatically expresses his opinion as to the best. That is what the ordinary householder wants, and as this opinion is the outcome of intelligence and experience, he is perfectly safe in adding it to his library of practical economics as an untechnical, straightforward, useful book." *Nation*, 1896.
 Sanitary drainage of houses and towns. 1876.....628.6 W22s

628.8 Ventilation

- BALDWIN, William James St. John.
 Ventilation of the school room. 1901.....628.8 B19
 Outlines in popular language present (1901) knowledge of the subject.
- BILLINGS, John Shaw.
 Ventilation and heating. 1893.....628.8 B48
 Standard work, dealing chiefly with ventilation. Written from the point of view of the physician, rather than that of the engineer.
- LEEDS, Lewis W.
 Treatise on ventilation; comprising seven lectures de-

livered before the Franklin institute, Philadelphia, 1866-
68. 1882.....r628.8 L53

629.1 Motor carriages

ALLEN, James T. *comp.*

Digest of United States automobile patents from 1789 to 1899, including all patents officially classed as traction-engines, with lists of patents in the classes of portable-engines, traction-wheels, electric locomotives and electric railway battery systems. 1900.....qr629.1 A42

The same; supplement, July 1899 to Jan. 1902.....qr629.1 A42s

BEAUMONT, William Worby.

Cantor lectures on mechanical road carriages. 1896.....q629.1 B35

Motor vehicles and motors; their design, construction and working by steam, oil and electricity. 1900.....q629.1 B35m
Full, reliable treatise, including a general view of the subject, with details of nearly all modern motors.

BRAMWELL, Clarence C.

Construction of a gasolene motor vehicle; ed. by E. W.

Graef. 1901.....629.1 B69

First published in the "Motor vehicle review."

Useful to those desiring acquaintance with the mechanical details and practical operation of gasoline automobiles, as well as to those wishing to construct them. Contains dimensioned drawings.

FARMAN, Dick.

Auto-cars; cars, trams and small cars. 1896.....629.1 F24

GRAFFIGNY, Henri de, (*pseud. of* Raoul Marquis).

Manuel du constructeur et du conducteur de cycles et d'automobiles. 1897.....629.1 G76

HISCOX, Gardner Dexter.

Horseless vehicles, automobiles, motor cycles operated by steam, hydro-carbon, electric and pneumatic motors.

1900629.1 H61

Contains a chapter "How to build an electric cab," with detailed drawings.

KNIGHT, John Henry.

Notes on motor carriages, with hints for purchasers and users. 1896.....629.1 K34

LAVERGNE, Gérard.

Manuel théorique et pratique de l'automobile sur route, vapeur, pétrole, électricité. 1900.....r629.1 L38

LAYRIZ, Otfried.

Mechanical traction in war for road transport, with notes on automobiles generally; tr. by R. B. Marston. 1900..q629.1 L44

LOCKERT, Louis.

Petroleum motor-cars. 1898.....629.1 L76

Illustrates and describes in full detail the best known types of petroleum automobiles.

SENCIER, Gaston, & Delasalle, A.

Les automobiles électriques. 1901.....q629.1 S474

Was awarded a medal by the Automobile club of France.

SENNETT, Alfred Richard.

"Carriages without horses shall go;" a paper on Horseless

- road locomotion, [with other papers]. 1896.....629.1 S47
The same. 1896.....r629.1 S47
 TAYLER, Alexander James Wallis-.
 Motor cars; or, Power-carriages for common roads.
 1897629.1 T24
 WOODS, C. E.
 Electric automobile; its construction, care and operation.
 1900629.1 W86
 Not intended as an engineering treatise, but for those interested in the
 purchase and use of automobiles. Technical language is avoided.

629.105 Periodicals

- AUTOMOBILE magazine; monthly, Oct. 1899-date. v.1-
 date. 1900-date.....r629.105 A93
 AUTOMOBILE review; a practical journal of automobile
 engineering and transportation; monthly. v.4-date.
 1901-dateqr629.105 A939
 Le CHAUFFEUR; [bimonthly]. v.2-date. 1898-date....r629.105 C34
 4th series of "Le technologiste."
 HORSELESS age; monthly. v.1-date. 1895-date.....qr629.105 H81

630 Agriculture

ADAMS, Edward F.

- Modern farmer in his business relations; a study of some
 of the principles underlying the art of profitable farm-
 ing and marketing, and of the interests of farmers as
 affected by modern social and economic conditions and
 forces. 1899.....630 A21

BAILEY, Liberty Hyde.

- Horticulturist's rule-book. 1895. (Garden-craft series.)..r630.8 B16

Compendium of useful information for fruit-growers, truck-gardeners,
 florists and others. A condensed manual of all rules and receipts and
 figures used by horticulturists; as insecticides, fungicides, means of
 combating all the important insects and fungi, planting-tables, dates
 of planting, yields, estimates for heating greenhouses, greenhouse rules
 of practice, tables of weights and measures, legal and customary stand-
 ards, grafting waxes, methods of packing and storing fruits and veg-
 etables, and thousands of other useful facts.

BAILEY, Liberty Hyde, *ed.*

- Principles of agriculture; a text-book for schools and rural
 societies. 1898. (Rural science series.).....630 B16

COBBETT, William.

- Cottage economy, containing information relative to the
 brewing of beer, making of bread, etc., with The poor
 man's friend. 1848.....r630 C63

COOKE, Samuel.

- Foundations of scientific agriculture. 1897.....630 C78

CROZIER, William, & Henderson, Peter.

- How the farm pays. 1884.....630 C89

GREELEY, Horace.

- What I know of farming. 1871.....r630 G82

"Of all the books that have served as a foot-ball of fun for men who

were utterly ignorant of its subject, none has been more bandied back and forth than Mr. Greeley's bucolic effusions...It contains the unrestrained expressions of a man of much ability, on a subject of which he really knows a great deal, and to which he has always given his best attention." *Nation*, 1871.

HEINZE, Robert.

Anleitung zur chemischen untersuchung und rationellen beurtheilung der landwirthschaftlich wichtigsten stoffe.

1883. (Hartleben's chemisch-technische bibliothek.)...r630 H42

JOHNSTON, James Finlay Weir.

Lectures on the applications of chemistry and geology to agriculture. 1850r630 J36

KING, Franklin Hiram.

Text book of the physics of agriculture. 1901630 K26

Contents: Introduction.—Physics of the soil.—Ground water, wells and farm drainage.—Principles of rural architecture.—Farm mechanics.—Principles of weather forecasting.

Professor King is an eminent authority on matters pertaining to the soil. This book is designed for the student of agriculture and the progressive farmer.

KIRBY, Mary, & Elizabeth.

Aunt Martha's corner cupboard; or, Stories about tea, coffee, sugar, rice, etc. 1898.....j630 K28

NORTON, John Pitkin.

Elements of scientific agriculture. 1855.....r630 N46

PENNSYLVANIA AGRICULTURAL SOCIETY.

Hints for American husbandmen. 1827.....r630 P39

ROBERTS, Job.

Pennsylvania farmer; a selection from the most approved treatises on husbandry, interspersed with observations and experiments. 1804.....r630 R53

STORER, Francis Humphreys.

Agriculture in some of its relations with chemistry. 2v.

1894630 S88

BEECHER, Henry Ward.

Plain and pleasant talk about fruits, flowers and farming.

1859r630.4 B37

[COLLECTION of reports and addresses on agriculture.]

[1830-51.]r630.4 C69

MITCHELL, Donald Grant.

My farm of Edgewood. 1891.....630.4 M74

The same. 1863.....r630.4 M74

Delightful in its literary quality, and interesting in its account of the alteration and improvement of a small place in Connecticut.

630.5 Periodicals

AMERICAN agriculturist, 1842-44, 1858-76, 1878-88, 1891-92,

1897-date. v.1-3, 17-35, 37-47, 50-51, 60-date. 1843-

dateqr630.5 A51

v.1-53 monthly; v.54-date weekly.

AMERICAN horticultural annual, 1867.....r630.5 A512

CULTIVATOR; monthly, Mar. 1834-Feb. 1838. v.1-4, in 1.

1837-38qr630.5 C91

EXPERIMENT station record; monthly, Sept. 1889-date.

- v.1—date. 1889—date. (United States—Experiment stations office.).....r630.5 E98
 v.1, no.2 wanting.
 v.1 bimonthly.
 "A periodical containing a condensed record of the contents of the bulletins and reports issued by the agricultural experiment stations of the United States, and also a brief review of agricultural science of the world."
 A card subject index to the publications of the various experiment stations, issued by the Office of experiment stations and containing brief abstracts of the articles indexed, will be found at the reference desk.
GARDENERS' chronicle; weekly. v.1, pt.2—v.21. 1841—61..qr630.5 G17
 Title-page of v.4—21 reads "Gardeners' chronicle and agricultural gazette."
MONTHLY journal of agriculture; ed. by J. S. Skinner, July 1845—June 1847. v.1—2. 1846—47.....r630.5 M86
 Binder's title and title-page of v.2 read "Journal of agriculture."
YANKEE farmer and news letter, devoted to agriculture, horticulture and the useful arts; ed. by S. W. Cole; weekly. v.4—6, in 1. 1838—40.....qr630.5 Y14
 v.5—6 title reads "Yankee farmer and New England cultivator."

630.6 Societies. Government publications

- CONNECTICUT**—Agriculture, Board of.
 Annual report (34th) of the secretary, 1900. 1901.....r630.6 C75
KANSAS—Agriculture, State board of.
 Biennial report (3d), for the years 1881—82. 1883.....r630.6 K12
MAINE STATE COLLEGE—Agricultural experiment station.
 Annual report, 1892. 1893.....r630.6 M26
MASSACHUSETTS—Agricultural experiment station, Amherst.
 Annual report (11th—12th) of the board of control, 1893—1894. 1894—95r630.6 M45
 In 1895 the Hatch experiment station and the Massachusetts agricultural experiment station were consolidated under the title Hatch experiment station of the Massachusetts agricultural college.
OHIO—Agriculture, State board of.
 Annual report (17th—18th), for the year 1862—63, with an abstract of the proceedings of the county agricultural societies. 1863—64.....r630.6 O18
 Contains also Reports (10th—11th), 1863—64, of the Ohio pomological society.
AGRICULTURE of Pennsylvania; containing reports of the State board of agriculture, the State agricultural society, the State dairymen's association, the State horticultural association, and the State college, for 1878—1894. 1879—94r630.6 P399
 For earlier reports see Pennsylvania—Agriculture, State board of; also Pennsylvania state agricultural society.
 For later reports see Pennsylvania—Agriculture, Department of. Annual report.
PENNSYLVANIA—Agriculture, Department of.
 Annual report (1st—date), 1895—date. 1896—date.....r630.6 P399a
 For earlier reports see Agriculture of Pennsylvania.
 pt.2 of 1895 and 1897 is the report of the Division of forestry.
 pt.2 of 1898 was never published.
Bulletin. no.6, 8—10, 16—17, 20—22, 26—35, 37, 39—date. 1896—dater630.6 P399b
 no.78, 108, 110 wanting.

no.27-30 will be found in qr630.6 P399a for 1897; no.70 in qr630.6 P399a for 1900.

For contents see contents book, p.364; kept at the reference desk.

PENNSYLVANIA—Agriculture, State board of.

Annual report (1st-18th), for the year 1877-1894. (In Agriculture of Pennsylvania, 1878-1894.).....r630.6 P399
1st report is bound separately.

For earlier reports see Pennsylvania state agricultural society.

For later reports see Pennsylvania—Agriculture, Department of. Annual report.

PENNSYLVANIA STATE AGRICULTURAL SOCIETY.

Annual report of the transactions (1st-11th), 1853-1876.

1854-76.r630.6 P39

6th report includes the reports for 1861-63; 7th, for 1864-70; 8th, for 1871-72; 9th, for 1872-73.

The same, 1878-1894. (In Agriculture of Pennsylvania, 1878-1894.).....r630.6 P399

PHILADELPHIA SOCIETY FOR PROMOTING AGRICULTURE.

Memoirs, containing communications on various subjects in husbandry and rural affairs. v.2, 4. 1814-18.r630.6 P49

UNITED STATES—Agriculture, Department of.

Annual report of the secretary [commissioner until 1889], for the year ending June 30, 1862-date. 1863-date.....r630.6 U25

———Index for years 1837 to 1893 inclusive. 1896.

For author index to these reports see r016.63 U25.

From 1841-1861 the report was published by the commissioner of patents and forms a part of his annual reports, r608.73 U25a.

The reports for 1895, 1897, 1898, 1899 will be found in the sheep bound set of congressional documents, numbered respectively, 3390, 3651, 3768, 3929.

From 1894-date this report is published in two parts; the first part being the administrative report, and the second part, called the "Yearbook," containing scientific papers for the information of farmers. The "Yearbook" is catalogued separately, r630.6 U25a.

No report was issued in 1846.

Farmers' bulletin, June 1889-date. no.1-date. [v.1-date.]

1889-dater630.6 U2534

For a list of Farmers' bulletins, no.1-132, see Bulletin no.6 of the Publications division of the Department of agriculture, p.26-33, r016.63 H23.

Report. no.32, 42, 57-date. 1884-date.....r630.6 U25rep

For contents see contents book, v.2, p.224; kept at the reference desk.

no.32 will be found in r633.21 V22; no.42 in r016.63 U25; no.57 in r632 U253c.

"Since its establishment in 1862 the Department of Agriculture has issued various publications of a miscellaneous character not properly belonging to any of its established series, which have up to the present time [1899] remained practically unclassified. It is now proposed to bring all these miscellaneous publications together in a series, to assign numbers to those which have heretofore been referred to as 'unnumbered reports,' and to continue the series as Reports of the U. S. Department of agriculture." *Report no.59.*

Report of the statistician; new series. no.59-date. [v.6-date.] 1889-date.....r630.6 U25r

no.65, 74, 80, 101-102, 104, 109, 111-133, 136, 139-154 wanting.

Yearbook, 1894-date. 1895-date.....r630.6 U25a

———Index, 1894-1900.

Previous to 1894 the information contained in the "Yearbook" will be found in the annual report of the department. From 1894-date the report is published in two parts; the first part being the administrative report, the second part, called the "Yearbook," containing a general account of the operations of the department during the year, scientific papers for the information of farmers, and statistical tables and information useful for reference.

UNITED STATES—Chemistry bureau.

Bulletin. no.13-15, 17-37, 39-date. 1887-date.....r630.6 U2533
For contents see contents book, v.2, p.246-249; kept at the reference desk.

UNITED STATES—Experiment stations office.

Bulletin. no.1-date. [v.1-date.] 1889-date.....qr630.6 U2534b
For partial contents see contents book, p.173; kept at the reference desk.
Contains many articles on the chemistry and nutritive value of foods.
no.119-120, 124, 127 wanting.

UNITED STATES—Hawaii agricultural experiment station.

Bulletin. no.1, 3. 1901-04.....r630.6 U2535
no.1. Chickens and their diseases in Hawaii, by T. F. Sedgwick.
no.3. Insecticides for use in Hawaii, by D. L. Van Dyne.

UNITED STATES—Plant industry bureau.

Bulletin. no.1-date. 1901-date.....qr630.6 U2532
For contents see contents book, p.301; kept at the reference desk.
The Bureau of plant industry, which was organized July 1, 1901, includes Vegetable pathological and physiological investigations, Botanical investigations and experiments, Grass and forage plant investigations, Pomological investigations, and Gardens and grounds, all of which were formerly separate divisions, and also Seed and plant introduction, the Arlington experimental farm. Tea investigations and experiments, and the Congressional seed distribution. Beginning with the date of organization of the bureau, the independent series of bulletins of each division was discontinued, and all are now published as one series of the bureau.

UNITED STATES—Statistics division. (Department of agriculture.)

Bulletin. no.1-date. 1890-date.....r630.6 U25re
For contents see contents book, v.2, p.260; kept at the reference desk.
no.1-8 title reads "Report."
no.4, 18 wanting.

MICHIGAN STATE AGRICULTURAL COLLEGE—Experiment station.

Bulletin. no.151-188. 1898-1901.....r630.7 M66
no.163, 176, 178, 181-185 wanting.

630.9 History of agriculture

PELL, Albert.

Making of the land in England. 1899.....630.942 P27
How it was made fit for cultivation, and the cost of improvement.

WALLACE, Robert, b. 1853.

Farming industries of Cape Colony. 1896.....r630.968 W17

UNITED STATES—Agriculture, Department of.

Album of agricultural statistics of the United States.

1889qr630.973 U25
Consists of 16 maps of the United States, each presenting a separate topic, as: Percentage of unoccupied and of farm land, Acreage in corn, Acreage in wheat, etc.

CONNECTICUT—Agriculture, Board of.

Handbook of Connecticut agriculture; prepared by T. S.

Gold. 1901.....r630.974 C75

BURKETT, Charles William.

History of Ohio agriculture; a treatise on the development of the various lines and phases of farm life in Ohio.

1900630.977 B91

WALLACE, Robert, b. 1853.

Rural economy and agriculture of Australia and New

- Zealand. 1891.....630.994 W17
 Mr Wallace gives an account of his travels through the colonies, but by far the greater part of the book is devoted to the state of agriculture, cattle and sheep raising.

631 Soil

BOSWELL, George.

- Treatise on watering meadows. 1779.....r635.2 A14
 Bound with Abercrombie's "Garden mushroom."

KING, Franklin Hiram.

- The soil; its nature, relations and fundamental principles of management. 1895. (Rural science series.).....631 K26

ROBERTS, Isaac Phillips.

- Fertility of the land. 1897. (Rural science series.).....631 R53
 Sketches the factors on which the fertility of the soil depends, and the relationship of farm-practice to its maintenance and increase.
 By the director of the College of agriculture of Cornell university (1897).

UNITED STATES—Soils bureau.

- Bulletin. no.1—date. [v.1—date.] 1895—date.....r631 U25

SNYDER, Harry.

- Chemistry of soils and fertilizers. 1899.....631.2 S67
 Condensed account of the methods of conserving the fertility of the soil, and of the economic use of manures.

631.5 Fertilizers

CHYNOWETH, James Bennett, & Bruckner, W. H.

- American manures, and farmers' and planters' guide. 1871..631.5 C47
 [COLLECTION of pamphlets on fertilizers.] [1891—1901.]..r631.5 C69
 PASSON, Max.

- Das Thomasmehl; seine chemie und geschichte. 1901....r631.5 P28

VOORHEES, Edward Burnett.

- Fertilizers. 1898. (Rural science series.).....631.5 V37

631.7 Drainage

WARING, George Edwin.

- Draining for profit and draining for health. 1896.....631.7 W22
 Stands for utmost thoroughness; valuable chapter on sewerage.

631.8 Irrigation

BAROIS, J.

- Irrigation in Egypt; tr. by A. M. Miller. 1889. (United States. 50th cong. 2d sess. House. Mis. doc. no. 134.)qr631.8 B25
 Translation from the French, of a report by the secretary to the Ministry of public works in Egypt.

BROOK, Harry Ellington.

- Irrigation in southern California; issued for the use of the delegates to the International irrigation congress, Oct. 10—15, 1893. 1893.....634.231 F52
 Bound with Fish's "Profits of orange culture in southern California."

BROWN, John Croumbie.

- Water supply of South Africa and facilities for the storage

- of it. 1877.....r631.8 B79
- HINTON, Richard Josiah.
Irrigation in the United States; its extent and methods, with digest of laws governing water supply. 1887. (United States. 49th cong. 2d sess. Senate. Mis. doc. no.15.)....r2450
- KING, Franklin Hiram.
Irrigation and drainage; principles and practice of their cultural phases. 1899. (Rural science series.).....631.8 K26
- POWELL, John Wesley.
Report on the lands of the arid region of the United States, with a more detailed account of the lands of Utah, with maps. 1879. (United States—Geographical and geological survey of the Rocky mountain region. Reports.)...qr631.8 P87
- UNITED STATES—Geological survey.
Water-supply and irrigation papers. no.1—date. 1896—dater631.8 U2533
For contents see contents book, v.2, p.257; kept at the reference desk. no.1-45 are indexed in Bulletin 177 of the survey.
- UNITED STATES—Irrigation and reclamation of arid lands, Select committee on.
Report of the special committee on the irrigation and reclamation of arid lands. 6pts. in 2v. 1890. (51st cong. 1st sess. Senate. Report no.928.).....r631.8 U253
pt.1. Report and views of the minority.
pt.2. The Northwest.
pt.3. Great basin region and California.
pt.4. Rocky mountain region and the great plains.
pt.5. Statements of officers of the Geological survey.—Consular reports. —General report of irrigation in the United States.—Miscellaneous papers.
pt.6. Irrigation in the United States, by R. J. Hinton.
- UNITED STATES—Irrigation inquiry office.
Report on irrigation. 4pts. in iv. 1892. (52d cong. 1st sess. Senate. Ex. doc. no.41.).....r631.8 U2534
pt.1. Report on irrigation and the cultivation of the soil thereby, by R. J. Hinton.—pt.2. Artesian and underflow investigation; final report of the chief engineer, E. S. Nettleton.—pt.3. Final geological reports of the artesian and underflow investigation between the 97th meridian and the foothills of the Rocky mountains, by Robert Hay.—pt.4. Final report on the mid-plains division of the artesian and underflow investigation between the 97th meridian and the foothills of the Rocky mountains, by J. W. Gregory, and a special report on certain artesian conditions in South Dakota, by F. F. B. Coffin.
- UNITED STATES—Signal office.
Irrigation and water storage in the arid regions. 1891. (51st cong. 2d sess. House. Ex. doc. no.287.)....qr631.8 U2532
- WILLCOCKS, William.
Egyptian irrigation. 1899.....qr631.8 W73
Author is the late director-general of reservoirs, in Egypt, and has been connected with many of the most important features of the work since 1883.
"A mine of valuable information to which all future engineers will turn."
Engineering, 1900.

631.9 Farm implements

DEERING HARVESTER CO.

Official retrospective exhibition of the development of harvesting machinery, for the Paris exposition of 1900.

- 1900r631.9 D37
 Traces the development of mowing and reaping machinery, illustrating and describing the various inventions for harvesting.
 Contains a list of official decisions of United States court and Patent office cases, and of publications on the subject.
- RITCHIE, Robert.
 Farm engineer; a treatise on barn machinery, particularly on the application of steam and other motive powers to the thrashing machine. 1849.....qr631.9 R49
- STABLER, Edward.
 Overlooked pages of reaper history. 1897.....r631.9 S77
 Reprint of three pamphlets on the manufacture of reaping machines.
- SWIFT, Rodney Bartlett.
 Who invented the reaper? 1897.....r631.9 S97
 Repeats McCormick's claims.

632 Pests. Blights. Insects

- BRITISH COLUMBIA—Horticulture, Provincial board of.
 Insect pests and plant diseases; containing remedies and suggestions recommended for adoption by farmers, fruit-growers and gardeners of the province. 1897.....qr632 B75
- COLORADO STATE AGRICULTURAL COLLEGE—Experiment station.
 Colorado's worst insect pests and their remedies. 1898.
 (Bulletin, no.47.).....r632 U253c
 Bound with other pamphlets.
- HUBBARD, Henry Guernsey.
 Insects affecting the orange. 1885. (United States—Entomology division. Special report.).....r557.3 U25b v.2
 Bound with "United States—Geological survey. Bulletin."
- KANSAS UNIVERSITY—Entomology, Department of.
 Bulletin, 1892, 1897, 1899. 1892-99.....r632 K12
Contents: The more destructive grasshoppers of Kansas.—Common injurious insects of Kansas, by V. L. Kellogg.—The honey-bee and its food-plants, with special reference to alfalfa, by S. J. Hunter.—Alfalfa, grasshoppers, bees; their relationship, by S. J. Hunter.
- MICHIGAN STATE AGRICULTURAL COLLEGE—Experiment station.
 Spraying calendar. 1899. (Special bulletin, no.12.).....qr632 M66
- NATIONAL CONVENTION FOR THE SUPPRESSION OF INSECT PESTS AND PLANT DISEASES BY LEGISLATION, Washington, D. C. 1897.
 Proceedings of the convention held Mar. 5-6, 1897; ed. by B. T. Galloway. 1897. (United States—Agriculture, Department of.).....r632 U253c
 Bound with other pamphlets.
- NEW YORK (state)—Entomologist.
 Report (4th-date) on injurious and other insects of the state of New York, 1887-date. 1888-date. (In New York (state)—Museum. Annual report, 1887-date.)...qr507 N26
 Reports (14th-date) are issued as numbers of the Bulletin of the New York state museum.
 Reports (1st-17th), 1881-1901, are indexed in Bulletin no.66 of the New York state museum, qr507 N26b.

UNITED STATES—Entomological commission.

Report (1st-5th), 1877-1890. 1878-90.....r632 U25

v.1. Rocky mountain locust.

v.2. Rocky mountain locust.—Western cricket.

v.3. Rocky mountain locust.—The army worm, canker worms and the Hessian fly.—Scientific results.

v.4. Revised edition of Bulletin no.3 and the final report on the cotton worm.

v.5. Revised edition of Bulletin no.7 on insects injurious to forest and shade trees.

No more published.

"The Commission was attached to the United States Geological and Geographical Survey of the Territories, Department of the Interior, until March 3, 1881. The third report of the Commission inaugurates its transfer to the Department of Agriculture."

UNITED STATES—Entomology division.

Bulletin, [old series]. 33 nos. 1880-95.....r632 U253
no.5, 8, 10-13, 15, 18, 21, 26, 30 wanting.

For contents see contents book, v.3, p.312; kept at the reference desk.

Bulletin, new series. no.1-date. [v.1-date.] 1896-date..r632 U253n

Bulletin no.36 is an "Index to Bulletins no.1-30 (new series), 1896-1901."

For contents see contents book, v.3, p.316; kept at the reference desk.

Circulars. 2d ser. no.4-6, 8-11, 13, 16, 19-20, 22, 40. 1894-

1900r632 U253c

Contents: The woolly aphid of the apple.—The clover mite.—The larger corn stalk-borer.—The rose-chaffer.—The harlequin cabbage bug, or calico bug.—How to distinguish the different mosquitoes of North America.—Canker-worms.—The imported elm leaf-beetle.—The Mexican cotton-boll weevil.—The carpet beetle, or buffalo moth. The army worm.—Mosquitoes and fleas.—The periodical cicada in 1897.

WEST VIRGINIA UNIVERSITY—Agricultural experiment station.

Bulletin. no.14-16, 21, 31-32, 35, 44, 67-68. 1891-1900.....r632 U253c

Contents: The periodical cicada or seventeen-year locust in West Virginia.—Catalogue of West Virginia scolytidae and their enemies.—Catalogue of West Virginia forest and shade tree insects.—Injurious insects and plant diseases.—Preliminary investigation of insect ravages; yellow locust, by A. D. Hopkins.—Raspberry gouty-gall beetle, by A. D. Hopkins.—Farm and garden insects, and experiments with remedies, and Notes of the season, by A. D. Hopkins.—Defects in wood caused by insects.—The Hessian fly in West Virginia and how to prevent losses from its ravages, by A. D. Hopkins.—Practical entomology, by A. D. Hopkins and W. E. Rumsey.

Bound with other pamphlets.

UNITED STATES—Vegetable physiology and pathology division.

Bulletin. 29 nos. 1891-1901.....r632.1 U25
no.4 wanting.

For contents see contents book, v.2, p.244; kept at the reference desk.

Beginning July 1, 1901, the date of the organization of the Plant industry bureau, the independent series of bulletins of the Vegetable physiology and pathology division, the last number of which was 29, was discontinued; it is now published, with the bulletins of the other divisions included under the bureau, as one series of the bureau.

LODEMAN, E. G.

Spraying of plants. 1896. (Rural science series.).....632.5 L76

COMSTOCK, John Henry.

Report upon cotton insects. 1879. (United States—Entomology division.).....r632.6 C73

SANDERSON, Ezra Dwight.

Insects injurious to staple crops. 1902.....632.6 S21

Practical handbook for farmers. The insect pests are grouped according to the crops they attack, i. e. insects injurious to wheat, insects

injurious to cotton, etc. Enough of the life-history and habits of each is given to make plain the reasons for the different remedies employed.

TREAT, Mrs Mary.

Injurious insects of the farm and garden, with a chapter on beneficial insects. 1889.....632.6 T71

WEED, Clarence Moores.

On the parasites of the lesser apple leaf-roller, *teras minuta*r632 U253c
From the Bulletin of the Illinois state laboratory of natural history, v.3.
Bound with other pamphlets.

633 Grains. Grasses. Fibers

CHURCH, Arthur Herbert.

Food-grains of India. 1886. (South Kensington museum science handbooks.).....q633 C46
"Bibliographical notes," p.11.

ROCHELEAU, William Francis.

Great American industries; products of the soil. 1898.....j633 R56
Contents: Cereals.—Cotton.—Lumber.—Sugar.—Wheat.

UNITED STATES—Botany division.

Bulletin. no.3, 6, 8, 12-29. 1887-1901.....qr633 U2533
no.26 wanting.

For contents see contents book, v.2, p.234; kept at the reference desk.
Beginning July 1, 1901, the date of the organization of the Plant industry bureau, the independent series of bulletins of the Botany division, the last number of which was 29, was discontinued; it is now published, with the bulletins of the other divisions included under the bureau, as one series of the bureau.

633.1 Cereals

THALER, Richard.

Die müllerei; ein handbuch des mühlenbetriebes. 1894.
(Hartleben's chemisch-technische bibliothek.).....r633.1 T33
Describes the grains used, methods of cleaning and preparing, the grinding, separation of the products, construction and arrangements of mills and various processes of milling. Numerous illustrations and drawings of machinery.

SARGENT, Frederick Leroy.

Corn plants; their uses and ways of life. 1899.....j633.13 S24
Gives in compact form and in readable style a clear account of the six important grain plants of the world—wheat, oats, rye, barley, rice and maize. Explains what corn plants are, indicates their importance to mankind, and narrates the myths and religious customs which have grown up about them. Also describes how the plants are formed, and how their growth and perfection are insured by their various organs. Author shows how well they are adapted for ideal food products for mankind, and gives the history, distribution and uses of each of the six plants.

WILSON, Alexander Stephen.

Bushel of corn. 1883.....r633.13 W76
Corn is here used to mean cereal grains in general, only wheat, barley and oats, however, being considered.
Chapters on the "Weight of a bushel of corn," "Measure-weight above and below average price," "Measure-weight and degrees of ripeness," "Classification of grain," "Percentage of kernel in respect of measure-weight," "Moisture in grain," "Doctoring measure-weight," "Equivalents of different qualities of oats," etc.

TODD, Sereno Edwards.

American wheat culturist. 1868.....633.18 T55

633.21 Grasses

UNITED STATES—Agrostology division.

Bulletin. 25 nos. 1895-1901.....r633.21 U25

Beginning July 1, 1901, the date of the organization of the Plant industry bureau, the independent series of bulletins of the Agrostology division, the last number of which was 25, was discontinued; it is now published, with the bulletins of the other divisions included under the bureau, as one series of the bureau.

VASEY, George.

Agricultural grasses of the United States; also the Chemical composition of American grasses, by Clifford Richardson. 1884. (United States—Agriculture, Department of. Report, no.32.).....r633.21 V22

Illustrations of North American grasses. 2v. 1891-93. (In United States—Botany division. Bulletin, no.12-13.)...qr633 U2533
v.1. Grasses of the Southwest.
v.2. Grasses of the Pacific slope.

633.4 Beet sugar. Maple sugar

[COLLECTION of pamphlets on sugar beets.] [1892-1900]r633.41 C69

McMURTRIE, William.

Report on the culture of the sugar beet, and the manufacture of sugar therefrom in France and the United States. 1880. (United States—Agriculture, Department of. Special reports.).....r633.41 M21

MYRICK, Herbert.

American sugar industry. 1899.....q633.41 M99
History of the growth of the beet sugar industry, more particularly, and a discussion of the tariff question from the producer's standpoint.

RUSH, Benjamin.

Account of the sugar maple-tree of the United States, and of the methods of obtaining sugar from it, in a letter to Thomas Jefferson. 1792.....r633.43 R89
Read before the American philosophical society on the 19th of August 1791.

633.53 Coffee

DELDEN LAERNE, C. F. van.

Brazil and Java; report on coffee-culture in America, Asia and Africa. 1885.....633.53 D39

HEWITT, Robert.

Coffee; its history, cultivation and uses. 1872.....633.53 H49

LOCK, Charles G. Warnford.

Coffee; its culture and commerce in all countries. 1888...633.53 L75
Bibliography, p.257-258.

ROMERO, Matias.

Coffee and india-rubber culture in Mexico; preceded by geographical and statistical notes on Mexico. 1898...633.53 R66

633.57 Tobacco

See also Tobacco, 178

CARVER, Jonathan.

Treatise on the culture of the tobacco plant. 1779.....r635.2 A14
 Bound with Abercrombie's "Garden mushroom."

GAVELLUS, Nicholas.

Storia distinta e curiosa del tabacco, concernente la sua
 scoperta, la introduzione in Europa e la maniera di col-
 tivarlo, conservarlo e prepararlo. 1758.....r633.57 G24

JENIFER, Daniel.

Remarks at the opening of the convention of tobacco
 planters of the United States, held in Washington, Dec.
 15, 1840. 1840.....r633.57 U25
 Bound with other pamphlets.

JENNINGS, James.

Practical treatise on the history, medical properties and
 cultivation of tobacco. 1830.....r633.57 J26

KILLEBREW, Joseph Buckner.

Report of the culture and curing of tobacco in the United
 States. 1884. (United States—Census office.)....qr633.57 K25

KILLEBREW, Joseph Buckner, & Myrick, Herbert.

Tobacco leaf; its culture and care, marketing and manu-
 facture; a practical handbook. 1897.....633.57 K25
 "Books on tobacco culture," p.495-496.

LOCK, Charles G. Warnford, *ed.*

Tobacco; growing, curing and manufacturing. 1886....r633.57 L75
 Bibliography, p.276-280.

TATHAM, William.

Historical and practical essay on the culture and commerce
 of tobacco. 1800.....r633.57 T23

UNITED STATES—State department.

Report of the secretary of state transmitting correspon-
 dence relative to the tobacco trade between the United
 States and foreign countries, Apr. 14, 1840. 1840. (26th
 cong. 1st sess. House. Ex. doc. no.229.).....r633.57 U25

633.7 Textiles. Cotton. Hemp

For Textile fabrics, see 677

UNITED STATES—Fiber investigations office.

Report, no.1, 4-11. 1890-98.....r633.7 U25

These reports are by C. R. Dodge.

no.1. Report on flax, hemp, ramie and jute, with considerations upon
 flax and hemp culture in Europe. This is the same as the first report
 of the Division of statistics, and will be found in r630.6 U25re.

no.4. Flax culture for fiber in the United States, including reports on
 flax culture in Ireland, in Belgium and in Austria, with statements
 relative to the industry in Russia.

no.5. Leaf fibers in the United States.

no.6. Uncultivated bast fibers of the United States.

no.7. The cultivation of ramie in the United States.

no.8. The culture of hemp and jute in the United States.

no.9. Descriptive catalogue of useful fiber plants of the world.

no.10. Flax culture for seed and fiber in Europe and America.

no.11. Culture of hemp in Europe.

Fiber investigations were begun in the Division of statistics in Nov.

1889. The Office of fiber investigations was established in 1890 and discontinued June 30, 1898. 11 reports only were published.

BROOKS, Christopher Parkinson.

Cotton; its uses, varieties, fibre structure, cultivation and preparation for the market and as an article of commerce, also the manufacture of cotton seed oil. 1898. .633.71 B77

MONIE, Hugh.

Cotton fibre; its structure, etc.; a treatise descriptive of the different varieties of cotton and the distinctive features in the structure of their filaments. 1890.633.71 M82

UNITED STATES—Agriculture and forestry committee.

Report on the condition of cotton growers in the United States, the present prices of cotton and the remedy, and on cotton consumption and production. Feb 23, 1895. 2v. in 1. 1895. (53d cong. 3d sess. Senate. Report no.896.)r633.71 U25

WILKINSON, Frederick.

Story of the cotton plant. 1899. (Library of useful stories.)633.71 W72
Concise, readable description of the cotton-plant, its cultivation, handling at the plantation, and spinning.

BOYCE, Sidney Smith.

Hemp (*cannabis sativa*); a practical treatise on the culture of hemp for seed and fiber, with a sketch of the history and nature of the hemp plant. 1900.633.73 B66

634 Fruits. Orchards. Vineyards

BAILEY, Liberty Hyde.

Principles of fruit-growing. 1897. (Rural science series.) .634 B16
"American books on fruit-growing," p.483-494.

Pruning-book; a monograph of the pruning and training of plants as applied to American conditions. 1898. (Garden-craft series.)634 B16p

Sketch of the evolution of our native fruits. 1898.634 B16s

Contents: The rise of the American grape.—The strange history of the mulberries.—The evolution of American plums and cherries.—The native apples.—The origin of American raspberry-growing.—Evolution of blackberry and dewberry culture.—Various types of berry-like fruits.—Various types of tree fruits.—General remarks on the improvement of our native fruits.

[COLLECTION of pamphlets on orchards and fruits.] [1889-1901.]r634 C69

DOWNING, Andrew Jackson.

Fruits and fruit-trees of America. 1893.634 D77
Directions concerning their culture, propagation and management, with a list of the best varieties, down to 1883.

MICHIGAN STATE POMOLOGICAL SOCIETY.

Annual report (8th) of the secretary, 1878. 1879.r634 M66

ONTARIO, FRUIT GROWERS' ASSOCIATION.

Annual report (22d), 1890. 1891.qr634 O25

PENNSYLVANIA STATE HORTICULTURAL ASSOCIATION.

- Annual report, Jan. 1872-1876, 1878-1894. (In Agriculture of Pennsylvania, 1878-1894.).....r630.6 P399
 Reports for 1872-1876 are in Report of Pennsylvania state agricultural society, v.8-11, r630.6 P39.
 Previous to 1882 the association bore the name Pennsylvania fruit growers' society.
 For later reports see Pennsylvania—Agriculture, Department of. Annual report.

ROE, Edward Payson.

- Home acre. 1898.....634 R59h
Contents: Tree-planting.—Fruit-trees and grass.—The garden.—The vineyard and orchard.—The raspberry.—The currant.—Strawberries.—The kitchen-garden.

THOMAS, John J.

- American fruit culturist. 1897.....r634 T37
The same; enlarged by W. H. S. Wood. 1903.....634 T37
 Practical handbook for fruit-growers, describing in detail the different varieties of fruit raised in this country.

UNITED STATES—Pomology division.

- Bulletin. no.2, 5-10. 1888-1901.....r634 U25b
 For contents see contents book, v.2, p.240; kept at the reference desk.
 Beginning July 1, 1901, the date of the organization of the Plant industry bureau, the independent series of bulletins of the Pomology division, the last number of which was 10, was discontinued; it is now published, with the bulletins of the other divisions included under the bureau, as one series of the bureau.

WICKSON, Edward James.

- California fruits and how to grow them. 1900.....634 W67

FISH, A. C.

- Profits of orange culture in southern California. 1890...634.231 F52

CARD, Fred Wallace.

- Bush-fruits; a horticultural monograph of raspberries, blackberries, dewberries, currants, gooseberries and other shrub-like fruits. 1898. (Rural science series.)..634.3 C19
 "American books on bush-fruits," p.513-515.
 "Purpose is to present both the practical and technical phases of all the important questions concerned in the cultivation and domestication of the fruits under discussion." *Preface.*

FULLER, Andrew S.

- Small fruit culturist. 1900.....634.3 F98

ROE, Edward Payson.

- Success with small fruits. 1881.....634.3 R59
 Pleasant, readable account of the best practices of growing and selling the berry fruits, as strawberries, raspberries, currants, gooseberries, etc.

BAILEY, Liberty Hyde.

- American grape training. 1893.....634.4 B16

SAPORTA, Antoine, comte de.

- Physique et chimie viticoles. 1899.....r634.4 S24
 Theoretical and practical treatise on scientific vine-culture and wine-making.

UNITED STATES—Pomology division.

- Nut culture in the United States, embracing native and introduced species. 1896.....qr634.5 U25

FERGUSON, John, comp.

- All about rubber and gutta-percha; the indiarubber planter's manual, with the latest statistics and information, more

particularly in regard to cultivation and scientific experiments in Trinidad and Ceylon. 1899.....634.6 F38

634.9 Forestry

BRISBIN, James S.

Trees and tree-planting. 1888.....634.9 B75

Object is to awaken interest in forest preservation. Tells what trees are adapted to certain soils and climates, gives practical directions for forest cultivation.

BROWN, James.

The forester; or, A practical treatise on the planting, rearing and general management of forest-trees. 1882...qr634.9 B78

BROWN, John Croumbie.

Management of crown forests at the Cape of Good Hope under the old régime and under the new. 1887.....634.9 B79

BRUNCKEN, Ernest.

North American forests and forestry; their relations to the national life of the American people. 1900.....634.9 B83

Comprehensive treatment of the subject. Discusses the distribution of forests, forest industries, the crime of forest destruction, forest finance and management, and forest fires, closing with a valuable chapter on forestry as a profession.

ELIOT, Charles.

Vegetation and scenery in the metropolitan reservations of Boston; a forestry report. 1898.....634.9 E47

Gives an account of the origin of the commoner types of woodland scenery, with some suggestions on the methods of changing and controlling the vegetation so as to preserve and increase the beauty of the landscape. Though describing local conditions, it sets forth general principles which may be applied anywhere. Maps and photographs of present conditions of tree-growths in the reservations.

GANNETT, Henry, and others.

Forest reserves, 1898-1900. 1899-1900. (In United States—Geological survey. Annual report, pt.5 of v.19-21.)...qr557.3 U25a
Each report is in 2 volumes: v.1, Text; v.2, Atlas.

GIFFORD, John Clayton.

Practical forestry; for beginners in forestry, agricultural students, woodland owners and others. 1902.....634.9 G37

Contents: Meaning of forest and forestry, and other introductory notes.—Wood-lots on farms, forest estates, and the relation of silviculture to the kindred arts of agriculture, horticulture and landscape gardening.—The forest canopy, forest floor and wood-mass.—The forest as an agent in modifying the surface of the earth and in checking the destructive forces of nature.—The geographical distribution of forests.—The formation and tending of forests.—Forest industries and products.—Forest trees and products of the tropics.—The principal federal and state reservations,—A list of fifty American forest trees, twenty-five conifers and twenty-five hardwoods.

HOUGH, Franklin Benjamin.

Elements of forestry. 1882.....634.9 H83

"Author has endeavored to present, in a concise form, a general outline of the subject...in its most ample relations, without attempting to be exhaustive in anything." *Preface.*

Author was formerly chief of the Forestry division, Department of agriculture.

Report upon forestry. 4v. 1878-84. (United States—Agriculture, Department of. Special reports.).....r634.9 H83

v.4 is by N. H. Egleston

MINNESOTA—Chief fire warden.

Forest preservation; annual report (1st-5th), 1895-99.

1896-1900r634.9 M72

NEW JERSEY—Geological survey. (3d survey.)

Report on forests. 1900.....r634.9 N26

Forms part of the Annual report of the state geologist for 1899.

Contains a description of the forest areas, and condition of the timber, papers on "Forests and water supply" and "Forests and climate," and a report on the condition and prospects of forests and forestry in the coast areas.

NEW YORK (state)—Forest commission.

Annual report, 1894. 1895.....r634.9 N2612

April 25, 1895, this commission was consolidated with the Fish and game commission and became Fisheries, game and forest commission, which name was changed in March 1901 to Forest, fish and game commission.

NISBET, John.

Our forests and woodlands. 1900. (Haddon hall library.)634.9 N36

PENNSYLVANIA—Forestry department.

Propagation of forest trees having commercial value and adapted to Pennsylvania, by G. H. Wirt. 1902.....r634.9 P399

PENNSYLVANIA. Statutes.

Pennsylvania laws relating to the Department of forestry, forestry reservations, timber lands, roadside trees, etc., 1901. 1901.....r634.9 P39

Published by the Department of forestry.

PINCHOT, Gifford, & Graves, H. S.

White pine; a study, with tables of volume and yield.

1896634.9 P61

ROUSSET, Antonin.

The forest waters the farm; or, The value of woodlands

as reservoirs. 1886.....634.9 R77

Second title-page reads "Studies of Master Peter about agriculture and forests."

SCHWARZ, G. Frederick.

Forest trees and forest scenery. 1901.....634.9 S41

Popular study of the ordinary types of American forest-trees, pointing out the elements of their beauty. The influence of undergrowth, of climbing plants, the manner of attachment of leaves, etc. are considered in relation to the æsthetic effect produced. Contains chapter on European forests. Fine illustrations.

UNITED STATES—Agriculture, Department of.

Report upon the forestry investigations of the department,

1877-1898, by B. E. Fernow. 1899. (55th cong. 3d sess.

House. Doc. no.181.).....qr634.9 U2532

Appendix: Memorial of a committee of the American association for the advancement of science, in behalf of forest preservation, leading to the establishment of the Division of forestry.—List of publications relating to forestry, issued from the Department of agriculture since 1877.—Forests and forestry in the United States.—Forest policies of European nations.—Forest conditions and methods of forest management in Germany, with a brief account of forest management in British India.—Principles of silviculture.—Principles of forest economy.—Forest influences.—The work in timber physics in the Division of forestry, by Filibert Roth.—Metal ties for railways, and economies in the use of wooden ties, by E. E. R. Tratman.

UNITED STATES—Foreign commerce bureau.

Forestry in Europe; reports from the consuls of the

United States. 1887.....r634.9 U253

UNITED STATES—Forestry bureau.

Bulletin. no.1—date. 1887—date.....qr634.9 U25
 no.11 wanting; no.23 not yet issued (1902).
 For contents see contents book, v.2, p.251; kept at the reference desk.

634.905 Periodicals

AMERICAN journal of forestry; monthly; ed. by F. B. Hough.

v.1. 1882—83.....r634.905 A51
 No more published.

FORESTER; monthly. v.4—date. 1898—date.....r634.905 F76

635 Vegetable gardening

BAILEY, Liberty Hyde.

Forcing-book; a manual of the cultivation of vegetables
 in glass houses. 1897. (Garden-craft series.).....635 B16f

Principles of vegetable-gardening. 1901. (Rural science
 series.)635 B16p
 Bibliography, p.242—270.

FISKE, George Burnap, *comp.*

Prize gardening; how to derive profit, pleasure and health
 from the garden; actual experience of the successful
 prize winners in the American agriculturist garden con-
 test. 1901.....635 F54

Object of the contest was to bring out reports of the most successful
 gardening efforts of the year. The information, which relates al-
 most exclusively to vegetables and fruit, is of a nature that is seldom
 given to the public by successful growers and is, therefore, of special
 interest and value to the novice.

HENDERSON, Peter.

Gardening for profit. 1894.....635 H44

"Although written for market gardeners, this book is invaluable to any
 one who wishes to grow good vegetables. Preparation of soil and
 manures, cultivation in all phases, lists and descriptions of different
 vegetables are given. This is the book of a practical man, one of
 the best gardeners and horticultural writers we have had. It is
 adapted to the use of everybody who desires a vegetable garden."
L. H. Bailey.

WATSON, Alexander.

American home garden; principles and rules for the cul-
 ture of vegetables, fruits, flowers and shrubbery. 1859..635 W31

ABERCROMBIE, John.

Garden mushroom; its nature and cultivation. 1779.....r635.2 A14

636 Domestic animals

JORDAN, Whitman Howard.

Feeding of animals. 1901. (Rural science series.).....636 J42

After a popular account of the chemical constituents of plants and ani-
 mals, the processes of nutrition and digestion, and the functions of
 food in the body, the author gives a description of different cattle
 foods, and the most recent results of scientific investigation and farm
 practice. There is also a useful chapter on the feeding of poultry.
 The work is intended for the reader who has some scientific knowl-
 edge.

MILLER, Olive Thorne.

Our home pets; how to keep them well and happy. 1894....636 M69

The same. 1894.....j636 M69

SHALER, Nathaniel Southgate.

Domesticated animals. 1895.....636 S52

Popular papers on ancestry, characteristics and value of domestic quadrupeds, birds and insects, with chapter on animals' rights and problem of domestication.

UNITED STATES—Animal industry bureau.

Annual report (1st-date), for the year 1884-date. 1885-dater636 U25

Reports for 1884-98 are indexed in "Index to literature relating to animal industry in the publications of the Department of agriculture," by G. F. Thompson, r636.63 T38.

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For contents see contents book, v.2, p.229; kept at the reference desk.

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636.1 Horses

HAYES, Matthew Horace.

Points of the horse; a familiar treatise on equine conformation. 1897.....q636.1 H37

Stable management and exercise. 1900.....636.1 H37s

JORROCKS, (*pseud.* of James Albert Garland).

Private stable; its establishment, management and appointments. 1899.....636.1 J43

LUPTON, James Irvine.

The horse; as he was, as he is and as he ought to be.

1881636.1 L98

MARTIN, George A.

Family horse; its stabling, care and feeding. 1889.....636.1 M42

UNITED STATES—Agriculture, Department of.

Special report on the market for American horses in foreign countries. 1898.....r636.1 U25

"Report on the American trade in horses, descriptions of the kinds of horses needed in European countries, and suggestions to American breeders as to breeding horses for foreign markets. Compiled principally from reports of the United States consular officers."

WALLACE, John H.

The horse of America, in his derivation, history and development. 1897.....636.1 W17

Devotes particular attention to the trotting horse.

WALSH, John Henry, (*pseud.* Stonehenge).

The horse, in the stable and the field. 1899.....636.1 W18h

636.3 Sheep

RUSHWORTH, William Arthur.

Sheep; a historical and statistical description of sheep and their products, with an appendix containing Sheep breeders' directory. 1899.....r636.3 R89

UNITED STATES—Animal industry bureau.

Special report on the history and present condition of the

sheep industry of the United States, by E. A. Carman,
H. A. Heath and John Minto. 1892.....r636.3 U25

636.5 Poultry

BEALE, Stephen.

Profitable poultry keeping. 1891.....636.5 B34

DARROW, J. Wallace.

Low cost poultry houses; plans and specifications for poultry
buildings costing from \$25 to \$100, with a chapter on poul-
try house conveniences. 1899 636.5 D26

FELCH, Isaac K.

Poultry culture; how to raise, manage, mate and judge
thoroughbred fowls. 1885.....636.5 F33

MYRICK, Herbert, *ed.*

Turkeys and how to grow them. 1897.....636.5 M99

Gives careful directions for breeding, feeding, rearing and marketing.

SHERRATON, Denzil.

Everybody's guide to poultry-keeping. [1896.].....636.5 S55

TEGETMEIER, William Bernhard.

Poultry book, comprising the breeding and management
of profitable and ornamental poultry. 1873.....q636.5 T26

WATSON, George Catchpole.

Farm poultry; a popular sketch of domestic fowls, for the
farmer and amateur. 1901. (Rural science series.)...636.5 W31
"Some important poultry publications," p.331-334.

WRIGHT, Lewis, *writer on poultry.*

Illustrated book of poultry. 1880.....qr636.5 W93i

Practical book on breeding and management. All the leading varieties
are described in detail and schedules given for judging at poultry
exhibits.

Practical poultry keeper; a guide to the management of
poultry, whether for domestic use, markets, or exhibi-
tion. 1897.....636.5 W93

Chiefly a description of breeds and varieties, and their origin, with only
short accounts of methods of management and feeding. Preface dated
1867.

636.7 Dogs

DALZIEL, Hugh.

Fox terrier, and all about it; revised and brought up to
date by J. Maxtee. 1900.....636.7 D17

HUNTINGTON, Harry Woodworth.

The show dog; the cardinal virtues and objectionable features
of all the breeds of dogs from the show ring standpoint,
with mode of treatment of the dog both in health and sick-
ness. 1901.....636.7 H94

LANE, Charles Henry.

All about dogs. 1900.....636.7 L23

The same.....j636.7 L23

MAXTEE, J.

Popular dog-keeping. 1898.....636.7 M52

Intended for those keeping but one or two dogs as pets. The dogs de-

scribed are those commonly known as "house" dogs. A large portion of the book is devoted to education and training.

STABLES, William Gordon.

Our friend the dog. 1884.....636.7 S77
Describes the characteristics and points of the various breeds, and treats of their management in health and sickness.

WALLACE, Mrs, *comp.*

Memories of some Oxford pets, by their friends. 1900....636.7 W17

WALSH, John Henry, (*pseud.* Stonehenge).

The dog in health and disease. 1887.....636.7 W18

636.8 Cats

CHANCE, Mrs J. C.

Book of cats; being a discourse on cats, with many quotations and original pencil drawings. 1898.....636.8 C36

HUIDEKOPER, Rush Shippen.

The cat; a guide to the classification and varieties of cats, and a treatise upon their care, diseases and treatment.
1895636.8 H91
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REPPLIER, Agnes.

Fireside sphinx. 1901.....636.8 R35
Contents: The cat of antiquity.—The dark ages.—Persecution.—Renaissance.—The cat of Albion.—The cat in art.—The cat triumphant.—Some cats of France.—The cat to-day.

WINSLOW, Helen Maria.

Concerning cats; my own and some others. 1900.....636.8 W79
There are chapters on the author's own pet cats as well as those of noted people, historic cats, high-bred cats, in England and America, the cats of poetry and art, cat hospitals and refuges, kittens and their tricks, characteristics of cats, and an appendix on the diseases of cats and their treatment. Numerous illustrations.

636.9 Other domestic animals

CRABTREE, Pleasant Elijah.

First Belgian hare course of instruction; twenty lessons, with a history of the Belgian hare and actual experiences of breeders. 1901.....636.9 C85
Advice on all branches of Belgian hare raising, with instruction in exhibiting and scoring.

HARTING, James Edmund.

The rabbit; with a chapter on cookery by A. I. Shand.
1898. (Fur and feather series.).....636.9 H32
Discussed as an object of sport. Describes its breeding, and all the methods of capturing and killing it.

SCOTFORD, Frederick E.

Belgian hares and how to raise them. 1900.....636.9 S42

JACKSON, Sheldon.

Annual report ([1st]-date) on introduction of domestic reindeer into Alaska, 1890-date. 1891-date. (United States—Education bureau.).....636.91 J12
1st report is a preliminary report transmitted Nov. 12, 1890. 1st and 4th reports will be found in the sheep bound set of congressional documents, no.2818 and 3280.
2d report is a special report of progress from 1890 to Jan. 1893.

637 Dairy. Milk

BAUMEISTER, Ferdinand.

- Milch und molkerei-producte. 1895. (Hartleben's chemisch-technische bibliothek.).....r637 B32
Illustrates the practice in butter- and cheese-factories. Contains a section on milk testing and analysis.

PENNSYLVANIA STATE DAIRYMEN'S ASSOCIATION.

- Transactions, 1876, 1878-1894. (In Agriculture of Pennsylvania, 1878-1894.).....r630.6 P399
Report of transactions for 1876 in Pennsylvania state agricultural society. Annual report of the transactions, v.11, r630.6 P39.
For later reports see Pennsylvania—Agriculture, Department of. Annual report.

RICHMOND, Henry Droop.

- Dairy chemistry; a practical handbook for dairy chemists and others having control of dairies. 1899.....637 R42
"List of useful books," p.357-358.

SNYDER, Harry.

- Chemistry of dairying. 1897.....637 S67
Bibliography at the end of each chapter.
Outlines the subject in simple language. Intended to instruct farmers and dairymen in the chemistry of milk and milk-products.

UNITED STATES—Foreign commerce bureau.

- Cattle and dairy farming; reports from consuls of the United States, on cattle and dairy farming and the markets for cattle, beef and dairy products in their several districts. 1887. (49th cong. 1st sess. House. Ex. doc. no.51.).....r637 U25

WING, Henry Hiram.

- Milk and its products. 1897. (Rural science series.).....637 W78
"References to agricultural experiment station reports and bulletins," p.259-267.
Discusses especially the manufacture of butter and cheese. Author is (1897) assistant professor of dairy husbandry in Cornell university.

AIKMAN, C. M.

- Milk; its nature and composition. 1895.....637.1 A29

FARRINGTON, Edward Holyoke, & Woll, F. W.

- Testing milk and its products; a manual for dairy students, creamery and cheese-factory operators and dairy farmers. 1898.....637.1 F25
The methods are those which do not require an expert knowledge of analytical chemistry. The use of the Babcock tester is given especial attention.

638 Bees. Silkworms

ROOT, A. I.

- A B C of bee culture. 1890.....q638 R68
The same; revised by E. R. Root. 1903.....q638 R68a

SOUDER, David.

- Rural economist's assistant in the management of bees, principally taken from the German writings of J. L. Christ. 1807.....r630 P39
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HAZZI, J. von.

Treatise on the culture of silk in Germany and especially in Bavaria; or, Complete instruction for the plantation and the management of mulberry trees and the rearing of silkworms. 1828. (United States. 20th cong. 1st sess. [House. Doc.] no.175, pt.2.).....r633.57 U25
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HOMERGUE, John d'.

D'Homergue upon American silk; report of the committee on agriculture, on the growth and manufacture of silk, to which is annexed Essays on American silk, with directions for raising silk worms, by John d'Homergue and P. S. Duponceau, May 24, 1830. 1830. (United States. 21st cong. 1st sess. House. Doc. no.26.).....r630.4 C69
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ROBERTS, Edward P.

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Fisheries exhibition literature. 14v. 1884.....r639 L82
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PENNSYLVANIA—Fisheries, State commissioners of.

Fish, fishing and fisheries of Pennsylvania; comp. by
W. E. Meehan. 1893.....r639 P39f
Prepared for Pennsylvania's fish exhibit at the World's Columbian ex-
position, Chicago, 1893.

Report, 1873/74, 1879/80—date. 1875—date.....r639 P39
The report for 1873/74 will be found in Executive documents, 1874,
r328.74 P39e.
Report for 1883/84 wanting.

THOMPSON, Lindsay G. *comp.*

History of the fisheries of New South Wales, with a sketch
of the laws by which they have been regulated. 1893....r639 T38

UNITED STATES—Fish commission.

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Fisheries and fishery industries of the United States; pre-
pared by G. B. Goode and a staff of associates. 5v.in 7.
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munities for 1880.

v.3. The fishing grounds of North America.

v.4. The fishermen of the United States.

v.5. History and methods of the fisheries.

pt.1-2. Text. pt.3. Plates.

- Report ([1st]-date) of the commissioner, 1871-date. 1873-dater639 U25r
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- BUND, John William Willis.
 Handy book of fishery management. 1899.....639.1 B88
- McINTOSH, William Carmichael.
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- UNITED STATES—Special agents division.
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 Report for 1896 is by G. R. Tingle; for 1897-1900, by H. M. Kutchin.
 Reports for 1899-1900 will be found in the sheep bound set of congressional documents, no.3852 and 4042.
- UNITED STATES—State department.
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- 639.2 Fish-culture**
- MATHER, Fred.
 Modern fishculture in fresh and salt water. 1900.....639.2 M46
 Contains a chapter on whitefish culture, by Herschel Whitaker, and one on the pike-perch, by James Nevin.
- ROOSEVELT, Robert Barnwell, & Green, Seth.
 Fish hatching and fish catching. 1879.....639.2 R68
- TRAHERNE, John Popkin.
 Habits of the salmon. 1889.....639.2 T68

640 Domestic economy

- BIDDER, Marion Greenwood, & Baddeley, Florence.
 Domestic economy in theory and practice; a text-book for teachers and students in training. 1901. (Cambridge series for schools and training colleges.).....640 B47
 Gives excellent outlines of lessons on food and domestic economy, with practical directions helpful to every young housekeeper, though many suggestions apply only to the English conditions for which it is written.
- BUCKTON, Mrs Catherine M.
 Comfort and cleanliness; the servant and mistress question. 1898.....640 B85
 Short practical directions, including an outline of each servant's work in a small household. Adapted to English city conditions.
- CAMPBELL, Mrs Helen.
 Easiest way in housekeeping and cooking. 1893.....640 C15e
 Bibliography, p.288.

- Household economics. 1897.....640 C15
 Bibliography at the end of each chapter.
 Practical chapters on house-building, furnishing, household management,
 food, cleaning, sanitation, service, modern life, etc.
- DEWING, Mrs Maria R. (Oakey).
 Beauty in the household. 1882.....645 D51
 Discusses questions of taste and beauty in household furnishings and
 offers many suggestions as to artistic effects.
- HERRICK, Mrs Christine (Terhune).
 First aid to the young housekeeper. 1900.....640 H47
- HOLT, Mrs Elizabeth F.
 From attic to cellar; or, Housekeeping made easy.
 1892640 H74
 Handbook on convenient and sanitary house-furnishing, servants' duties
 and rights, washing, sweeping, fuel, care of lamps, woolens, silver, etc.
- HUNTINGTON, Emily.
 Kitchen garden; or, Object lessons in household work.
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 Author originated the kitchen-garden, which applies kindergarten methods
 to teaching little girls to sweep, dust, answer the door, lay the table,
 and other simple household duties. Miss Huntington's classes have
 been successfully conducted for years at the Wilson mission, Avenue
 A and St. Mark's place, New York.
- MURCHÉ, Vincent T.
 Teacher's manual of object lessons in domestic economy;
 adapted to meet the requirements of the education de-
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 2v. 1898.....640 M97
- ORMSBEE, Mrs Agnes (Bailey).
 House comfortable. 1892.....640 O28
- PARLOA, Maria.
 Home economics. 1898.....640 P24
Contents: Some essentials of the home.—The water-supply.—Furnish-
 ing.—Daily routine of household work.—The laundry.—Care of
 lighting appliances.—Fuel and fires.—Table service.—Marketing.—
 The art of carving.—Food.—Woods and polished floors.—Treatment
 of wood finishes.—Oils, their use and behavior.—Stains.
- POWER, Mrs Susan C. (Dunning), (*pseud.* Shirley Dare).
 Anna Maria's housekeeping. 1884.....640 P87
 Appeared first in the "Wide awake," v.15-19, 1882-1884.
 Practical suggestions for easy and economical housekeeping.
- RICHARDS, Mrs Ellen Henrietta (Swallow).
 Cost of living as modified by sanitary science. 1899.....640 R39
 "It is with the intention of starting a discussion of certain questions by
 the intelligent young people just about to begin life on fifteen hundred
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Author.
- RICHARDS, Mrs Ellen Henrietta (Swallow), & Elliott, S. M.
 Chemistry of cooking and cleaning; a manual for house-
 keepers. 1897.....640 R39c
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 Gives for non-scientific readers practical information as to the chemical
 composition of the different foods, how they are changed by cooking,
 and the proportion of the different elements needed in diet, also tells
 what dust, grease and all sorts of spots and stains really are and what
 will most effectually remove them.
- SEAMAN, Hervey J.
 Expert cleaner; a handbook of practical information for
 all who like clean homes, tidy apparel, wholesome food

- and healthful surroundings. 1899.....r640 S43
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- STACPOOLE, Florence.
 Handbook of housekeeping for small incomes. [1898.].....640 S77
- WILSON, Mrs Lucy Langdon (Williams), *ed.*
 Domestic science in grammar grades; a reader. 1900....640 W76d
 Handbook of domestic science and household arts, for use
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Contents: Hagenbotham, May. The house beautiful.—Marlatt, A. L.
 The kitchen. Starchy foods and how to cook them.—Wilson, Mrs
 L. L. W. Foods. Advanced course. Principles of cooking.—Beckler,
 A. H. Fish, oysters and salads.—Wilson, Mrs L. L. W. The dining
 room.—Norton, Mrs A. P. Bread, pastry and cake.—Hunt, C. L. The
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 room into a workshop for the study of household arts.
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 "The course of study outlined in the following pages has already been
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- HOME science magazine. *See* American kitchen magazine.

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 Practical sanitary and economic cooking, adapted to per-
 sons of moderate and small means. 1890.....641 A14
 Prize essay of the American public health association.
 States clearly food values and proper methods of preparation; gives
 receipts, bills of fare and prices.
- BENTON, Mrs J. Rosalie.
 How to cook well. 1886.....r641 B44
 Collection of tested receipts, with careful directions about mixing and
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- BERSCH, Wilhelm.
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- BROWNE, Phyllis, (*pseud.* of Arthur Gay Payne).
 Dictionary of dainty breakfasts. 1899.....j641 B81

BURRELL, Caroline Benedict.

Gala-day luncheons; a little book of suggestions. 1901.....643 B94
Some of these chapters appeared first in "Harper's bazar."

CHURCH, Arthur Herbert.

Food; some account of its sources, constituents and uses.

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CORSON, Juliet.

Family living on \$500 a year. 1887.....641 C82

Practical American cookery and household management.

1885641 C82p

Full of excellent receipts. Includes the care of children and invalids,
and careful instructions for marketing and carving.

CURTIS, Isabel Gordon.

Left-overs made palatable; a manual of practical economy
of money, time and labor in the preparation and use of

food. 1902.....641 C93

Tells how to utilize foods which in an American household usually go
to waste. The book stands almost alone in its class and is so emi-
nently practical as to be of importance.

DAVIDIS, Henriette.

Praktisches kochbuch für die gewöhnliche und feinere
küche, bearbeitet für die deutsch-amerikanische küche;
nebst einem anhang spezifisch amerikanischer koch-
back- und einmach-rezepte; mit umrechnung der deut-
schen masse und gewichte in amerikanische. 1901.....641 D29

DE LOUP, Maximilian.

American salad book. 1900.....641 D41

DODDS, Susanna W.

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Nouvelle cuisine bourgeoise pour la ville et pour la cam-
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EWING, Mrs Emma (Pike).

Art of cookery. 1899.....641 E97

Marketing, care of food, methods of cooking; with receipts, bread and
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FARMER, Fannie Merritt.

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Majestic family cook-book. 1897.....641 G15

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Terhune).

Breakfast, luncheon and tea. 1889.....641 H27

Common sense in the household; a manual of practical

housewifery. 1898.....641 H27c

"Chiefly a cookery book, including dishes for the nursery and sick-
room. A few directions for washing, cleaning, and the like are added.
Mrs. Terhune's cookery is distinctively American, of the Southern
school; her receipts are trustworthy, and the directions sufficiently
clear to be followed successfully by the inexperienced housewife."

Gesunde vernunft im haushalte; ein handbuch praktischer

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Bread and cake baking. 1877.....641 H35

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HERRICK, Mrs Christine (Terhune).

- Liberal living upon narrow means. 1891.....64I H47
Offers an economical and carefully planned menu for every day of one week during each month of the year. Includes hints for avoiding waste.

HUNTINGTON, Emily.

- Cooking garden. 1885.....q64I H94
Directions for simple cooking lessons. Author was a pioneer in teaching cooking to children.

JAGO, William.

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JAMES, Alice L.

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KELLOGG, Mrs E. E.

- Science in the kitchen; a scientific treatise on food substances and their dietetic properties, with a practical explanation of the principles of healthful cookery, and a number of recipes. 1892.....64I K16

KIRKLAND, Elizabeth Stansbury.

- Dora's housekeeping. 1899.....j64I K28d
Failures and successes of a little girl who cooks, and keeps house for her father.
Six little cooks; or, Aunt Jane's cooking class. 1891.....j64I K28
Easy receipts for little girls to try at home.

LARNED, Mrs Linda (Hull).

- Hostess of today. 1899.....64I L32
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"A culinary treatise worthy of as serious consideration as it is possible to accord to literature of the kitchen. It merits encomium not only for the novel manner in which the recipes are presented, but for the piquant quality that pervades them." *Nation*, 1899.

LINCOLN, Mrs Mary Johnson (Bailey).

- Boston cook book. 1894.....64I L71
Trustworthy guide in practical cookery. Arrangement of the topics is systematic, and the directions for work so concise and exact that a novice in following them is able to obtain good results. Though not a scientific treatise, it gives a useful outline of the chemistry and physiology of food.

MALLOCK, M. M.

- Economics of modern cookery; or, A younger son's cookery book. 1900.....64I M29
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MANN, E. E.

- Manual of the principles of practical cookery. 1899. (Domestic science manuals.).....64I M33

NITSCH, Mrs Helen Alice (Matthews), (*pseud.* Catherine Owen).

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- a week. 1896.....64I N36
Describes the struggles and triumphs of a young housekeeper. Its simple story gives a personal interest to household matters, and offers good receipts not found in formal cook-books.
- PARLOA, Maria.
Camp cookery; how to live in camp. 1878.....64I P24c
Kitchen companion. 1887.....64I P24k
"Exhaustive culinary treatise, and everything from the building of the kitchen to the ferns on the dinner-table is discussed and explained."
Critic, 1887.
New cook book and marketing guide. 1880.....64I P24
Young housekeeper. 1894.....64I P24y
Economical receipts for a family of two or three, with elementary hints on household management.
- PAUL, Mrs Sara T.
Cookery from experience. 1875.....64I P31
Receipts tested by personal experience of the author.
- PIERCE, Ella A.
Hartley house cook book and household economist. 1901.
(Hand-books for practical workers in church and philanthropy.)64I P55
Hartley house, a department of the New York association for improving the condition of the poor, is an industrial settlement whose resident workers and volunteers live and labor among the poor. These receipts, which are those used in the Hartley house cooking classes, are eminently practical and economical.
- RONALD, Mary, (*pseud. of* Mrs Augusta (Foote) Arnold).
Century cook book. 1896.....64I R66
- RORER, Mrs Sarah Tyson.
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Condensed history of printing and the other arts involved in book-making. The chapters on type and binding have been revised by specialists. Has chapters on libraries and on collecting, describing and cataloguing incunabula. This is an enlarged edition of Bouchot's "The printed book."

The printed book; its history, illustration and adornment, from the days of Gutenberg to the present time. 1887...655 B65

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1894 . .qr655.145 O25ar
Introductory chapter on "The art of printing at Venice during the Italian renaissance" by Carlo Castellani. The library has copies of this work in English, French and Italian.

Early Venetian printing illustrated. 1895. .qr655.145 O25

This beautiful volume consists of reproductions, in black and red, of pages, initials, marks and illustrations of many of the best-known printers of Venice, including Aldus, Jenson, Ratdolt and others, from 1469 to 1539.

Introductory chapter on "The art of printing at Venice during the Italian renaissance" by Carlo Castellani. The library has copies of this work in English, French and Italian.

HECKETHORN, Charles William.

Printers of Basle in the 15th and 16th centuries; their biographies, printed books and devices. 1897. .qr655.149 H39
"Authorities," p.7-9.

WEEKS, Stephen Beauregard.

Press of North Carolina in the eighteenth century, with biographical sketches of printers, an account of the manufacture of paper, and a bibliography of the issues. 1891 . .r655.175 W42

This monograph contains all that was known at the time of its publication (1891), of the 18th century North Carolina press. The bibliography contains 130 titles of books, pamphlets and broadsides printed in the state in the 18th century and gives a summary of the legal literature of the period.

655.2 Type and type-setting

DE VINNE, Theodore Low.

Treatise on the processes of type-making, the point system, the names, sizes, styles and prices of plain printing types. 1900. (Practice of typography.).....655.2 D49

The same. 1900. (Practice of typography.).....r655.2 D49

This copy is kept in the printing department.

The first of a series of treatises on the practice of typography, by the founder of the De Vinne press. Contains an illustrated description of the tools, processes and systems of type-making, the names and descriptions of all sizes of book types, with specimens of each; numerous exhibits of the more important styles of roman, italic, black and display-letter, including recent quaint styles designed for book-printing, with tables of prices of types here and abroad, etc. It is a book which will be needed in every printing and publishing office, for it contains information not to be found in the ordinary grammars of printing nor to be gleaned from the specimen books of the type-founders.

AMERICAN TYPE FOUNDERS' CO.

One hundred years, 1796-1896; MacKellar, Smiths and Jordan foundry, Philadelphia, Pa. 1896.....qr655.21 A51

URQUHART, John W.

Electro-typing; a practical manual. 1881.....655.22 U27

655.24 Specimen books

AMERICAN TYPE FOUNDERS' CO.

Specimens of printing types. 1897.....r655.24 A51

BRUCE'S, (George) SON & CO.

Specimens of printing types made at Bruce's New-York type-foundry. 1882.....qr655.24 B82

Contains "The invention of printing," by T. L. De Vinne.

FARMER, (A. D.) & SON TYPE FOUNDING CO.

Specimens, including complete price list. 1897.....r655.24 F24

PAGE, (William H.) WOODTYPE CO.

Chromatic specimens of wood type.....qr655.24 P14

A pamphlet of specimens of ordinary wood type is bound with this volume.

RALPH, Edmund Southpy, *comp.*

Book of designs from type; showing practical examples selected from the catalogues and letter-press work of various customers; studies in black and white. 1897..r655.24 R17b

Modern type display; examples of artistic type display, also a brief treatise on type display. 1900.....r655.24 R17
Published by the Inland printer co.

655.25-655.26 Composition. Proof-reading

DE VINNE, Theodore Low.

Correct composition; a treatise on spelling, abbreviations, the compounding and division of words, the proper use of figures and numerals, italic and capital letters, notes, etc.; with observations on punctuation and proof-reading. 1901. (Practice of typography.).....655.25 D49

The same. 1901. (Practice of typography.).....r655.25 D49

This copy is kept in the printing department.

TEALL, Francis Horace.

Proof-reading; a series of essays for readers and their employers and for authors and editors. 1899.....r655.25 T26
 Author was critical proof-reader and editor of the Century and Standard dictionaries, and is (1901) editor of the Proof-room notes and queries department of the "Inland printer."

VENN, Theo. J.

Manual of proofreading. 1897.....655.25 V26

BISHOP, Henry Gold.

Specimens of job work for printers; suggestions for setting up business cards, letter heads, bill heads, circulars and all kinds of display advertising. 1896.....qr655.26 B49

TYPOGRAPHICAL UNION NO. 6, New York.

Printing exposition job contest; reproductions of 134 specimens of job composition submitted in a competition inaugurated by Typographical union no.6, New York, in connection with the celebration of its 50th anniversary. 1900.....qr655.26 T98

655.27 Imposition

WILLIAMS, T. B.

Hints on imposition; a guide for printer and pressman in the construction of book-forms. 1895.....655.27 W74

655.28 Linotype

BARCLAY, E. J.

Linotype operator's companion; contains a list of patents issued on type-setting, distributing and matrix-making machines, from 1841-1898. 1898.....r655.28 B23
 This book is kept in the printing department.

COCHRANE, Charles Henry.

Proper fingering of the linotype keyboard. 1898.....r655.28 C64
 Reprinted from the "Inland printer," July 1898.

LINOTYPE manual; giving detailed instructions of the proper adjustment and care of the linotype. 1898....r655.28 L72

MERGENTHALER LINOTYPE CO.

Price list of linotype parts. 1898.....r655.28 M63
 This book is kept in the printing department.

STUBBS, William Henry.

Stubbs's manual; a practical treatise on linotype keyboard manipulation. 1902.....r655.28 S93
 Author is (1902) the holder of speed record. He explains clearly his own method of fingering.

655.3 Practical printing

BISHOP, Henry Gold.

Job printer's list of prices and estimate guide, containing prices to be charged for all kinds of job and book work. 1893655.3 B49

The practical printer, containing information on all the various parts of the printing business. 1895.....655.3 B49p

JACOBI, Charles Thomas.

Printing; a practical treatise on the art of typography as applied more particularly to the printing of books.

1893. (Technological handbooks.).....r655.3 J13

This book is kept in the printing department.

MOXON, Joseph.

Mechanick exercises; or, The doctrine of handy-works applied to the art of printing. 2v. 1896.....qr655.3 M94

Reprint of the edition of 1683.

WILSON, Frederick J. F. & Grey, Douglas.

A practical treatise upon modern printing machinery and letterpress printing. 1888.....q655.3 W76

KELLY, William J.

Presswork; a practical handbook for the use of pressmen and their apprentices. 1897.....r655.32 K17

Appeared in the "Inland printer."

This book is kept in the printing department.

The same. 1902.....r655.32 K17p

LANGER, Wilhelm.

Die herstellung der abziehbilder (metachromatypie, decalcomanie), der blech- und transparentdrucke. 1888.

(Hartleben's chemisch-technische bibliothek.).....r655.32 L25

655.4 History of publishing and bookselling

PUTNAM, George Haven.

Books and their makers during the middle ages. 2v.

1896-97655.4 P99

v.1. 476-1600.

v.2. 1500-1709.

Treats of books in manuscript, of the invention of printing and the history in some detail of the representative great printer-publishers, including a list of titles of their more important publications. Discusses the beginning of property in literature, censorship and literary privileges.

ARBER, Edward, *comp.*

List, based on the registers of the Stationers company, of 837 London publishers (who were by trade, printers, engravers, booksellers, bookbinders, etc.) between 1553 and 1640; a master key to English bibliography.

1890qr655.442 A66

ROBERTS, William.

Earlier history of English bookselling. 1889.....655.442 R53

Contents: Bookselling before printing.—The dawn of English bookselling.—Bookselling in the time of Shakespeare.—Bookselling in the 17th century.—Bookselling in Little Britain.—Bookselling on London bridge.—Other bookselling localities.—Jacob Tonson.—Bernard Lintot.—Edmund Curll.—John Dunton.—Thomas Guy.

655.5 Publishing and bookselling

PUTNAM, George Haven, & John Bishop.

Authors and publishers; a manual of suggestions for beginners in literature. 1897.....655.5 P99

WAGNER, Leopold.

How to publish a book or article and how to produce a play. 1898.....655.5 W13

WELSH, Charles.

Publishing a book; a few practical hints to authors as to the preparation of manuscript, the correction of proof, and arrangement with the publisher. 1899.....655.5 W51

655.6 Copyright

BIRRELL, Augustine.

Seven lectures on the law and history of copyright in books. 1899.....655.6 B49

PUTNAM, George Haven.

Question of copyright. 1891. (Questions of the day.)....655.6 P99

The same. 1896.....r655.6 P99q

Comprises the text of the United States copyright law, a summary of the copyright laws now in force in the chief countries of the world, a report of pending legislation in Great Britain, and a sketch of the contest in the United States from 1837 to 1891 to secure international copyright, together with a paper on the results of the American act of 1891.

WRIGHT, Carroll Davidson.

Report on the effect of the international copyright law in the United States, made in compliance with the resolution of the United States Senate of Jan. 23, 1900. 1901. (United States. 56th cong. 2d sess. Senate. Doc. no.87.).....r4033

656 Transportation. Railroads

See also Railroads, 385; Railroad and road engineering, 625

ALEXANDER, J. T. Burton.

Runs in three continents; a short record of actual performances on some European, Canadian, Australian and American railways. 1900.....656 A376

COMMERCIAL & FINANCIAL CHRONICLE, *comp.*

Hand-book of railroad securities, Jan. 1900; description, income, prices, dividends. 1900r656 C73

DREDGE, James.

Record of the transportation exhibits at the World's Columbian exposition. 1894.....qr656 D81r
Partly reprinted from "Engineering."

GRAY, Thomas, 1787-1848.

Observations on a general iron rail-way, or land steam-conveyance. 1825.....r656 G81

JEANS, James Stephen.

Railway problems; an inquiry into the economic conditions of railway working in different countries. 1887.....656 J22

MARINE REVIEW, *pub.*

Blue book of American shipping, 1898-date. 3d annual issue-date. 1898-date.....qr656 M38
Issue for 1901 wanting.

MERCANTILE GUIDE AND BUREAU CO. *pub.*

C. and T. (Cavanagh & Townsend, commerce & transportation) shipping guide, combining a railroad, express, postal and route guide. 1900.....qr656 M63

PURCHASING AGENTS' DIRECTORY CO. *pub.*

Railway purchasing agents', master mechanics' and master car builders' directory, 1891/92, 1895. 1890-95.....r656.02 P98

AMERICAN RAILWAY ASSOCIATION.

Proceedings. v.1-date. 1886-date.....qr656.05 A51

The volume for 1886 to 1893 contains an appendix of the Proceedings of the General time convention, 1872 to 1885, and of the Southern railway time convention, 1877 to 1885.

In 1886 the Southern railway time convention united with the General time convention, and in 1891 the convention became the American railway association.

Proceedings for Oct. 1899 wanting.

RAILWAY magazine; monthly. v.2-3. 1897.....r656.05 R15

RINGWALT, John Luther.

Development of transportation systems in the United States. 1888.....qr656.09 R47

Describes the leading features of advancement (from the colonial period to recent times) in the various methods of transportation. Gives the cost at various times and with the different systems, the various questions which have arisen, and notable incidents in railway development.

656.1 Railroad management

IVATTS, Edmund B.

Railway management at stations. 1898.....656.1 I33

Manual of instruction, with suggestions for improvements. Conforms to the English system of railway working.

KIRKMAN, Marshall Monroe.

Railway service, trains and stations. 1878.....656.1 K28

"Treats of the composition and movement of railway trains and the laws governing the same, including an exposition of the duties of train and station men." *Preface.*

656.2 Light railroads

COLE, William Henry.

Light railways at home and abroad. 1899.....656.2 C68

Manual of information concerning light railways, both narrow and standard gage, in different countries. Pays particular attention to their development in England.

FLEMING, Howard.

Narrow gauge railways in America. 1876.....656.2 F62

Historical and practical sketch, including a directory of narrow-gage railways in the United States in 1876.

656.31 Railroad accounting

EATON, James Shirley.

Railroad operations, how to know them; from a study of the accounts and statistics. 1900.....656.31 E19

656.4 Accidents. 656.5 Safety appliances

ADAMS, Charles Francis, *b.* 1835.

Notes on railroad accidents. 1879.....656.4 A21

LANGDON, William Edward.

Application of electricity to railway working. 1897.....656.5 L24

The same. 1877.....r656.5 L24

Has no reference to railways in which electricity is the form of energy used to move the trains, but deals with the application of electricity to telegraphs, the block system of signals and train-lighting.

STRETTON, Clement E.

Safe railway working; a treatise on railway accidents, their cause and prevention, with a description of modern appliances and systems. 1893.....656.5 S91

656.51 Signals

MURPHY, W. J.

Stereopticon method of examining and instructing railway employes. 1899.....656.51 M97

A method of representing train signals in the lecture-room.

RAILWAY SIGNAL ASSOCIATION.

Proceedings, 1897/98-date. v.1-date. 1898-date.....r656.51 R15
From 1897-1903 called Railway signaling club.

WILSON, H. Raynar.

Railway signalling. [1900.] (Railway series of text books and manuals by railway men.).....qr656.51 W76
Treats only mechanical signaling, and describes minutely the appliances representing sound British practice. Working drawings are given for almost every device used.

ADAMS, Braman Blanchard.

Block system of signaling on American railroads; the methods and appliances used in manual and automatic block signaling, also descriptions of hand-operated and power-operated interlocking machines. 1901.....656.56 A21

DERR, William Lloyd.

Block signal operation; a practical manual. 1897.....656.56 D44

ELLIOTT, W. H.

Block and interlocking signals. 1896.....656.56 E52
Construction, operation and cost of various systems.

PIGG, James.

Railway "block" signalling; the principles of train signalling and apparatus for ensuring safety. [1898.]...656.56 P57

656.6 History of railroads

ENGLAND—Steam carriages on common roads, Select committee on.

Report on steam carriages, by a select committee of the House of commons, with minutes of evidence and appendix. 1832. (United States. 22d cong. 1st sess. House. Doc. no.101.).....r656.6 E64

Appendix contains "Documents in relation to the comparative merits of canals and railroads," giving much information on cost of railway construction, maintenance and operation in early times.

Committee inquired into the tolls which should be imposed, the tolls which the laws then in force allowed, and "generally into the present state and future prospects of land carriage by means of wheeled vehicles propelled by steam or gas on common roads."

GILPIN, William.

Cosmopolitan railway, compacting and fusing together all

- the world's continents. 1890.....656.6 G42
 A plan for a railway system connecting the railroads of America, by way of Bering strait, with those of Asia, Europe and all the world.
- PANGBORN, Joseph Gladding.
 Side lights on management world systems railways. 1901..656.6 P21
 A practical railway man's views of the efficiency of the various systems of railway management used in America, Germany, Australia, New Zealand, India, England and Russia.
- The world's rail way; historical, descriptive, illustrative.
 1894qr656.6 P21
 Accurate and extremely interesting survey of railroading, describing particularly the early days of the industry. Contains many illustrations of almost all the early types of locomotives.

England

- ACWORTH, William Mitchell.
 Railways of England. 1890.....656.642 A18
 Popular description of the leading railways, noting the most characteristic features of each.
- FINDLAY, George James.
 Working and management of an English railway. 1891..656.642 F49
- GRINLING, Charles Herbert.
 History of the Great northern railway, 1845-1895. 1898..656.642 G92
 The railway in question is the Great northern of England.
- PENDLETON, John.
 Our railways; their origin, development, incident and romance. 2v. 1894.....656.642 P39
 Treats of English railways only.

United States

- ADAMS, Charles Francis, b. 1835.
 Railroads; their origin and problems. 1888.....656.673 A21
 Discusses the necessity of governmental regulation of railway rates, earnings, etc.
- The AMERICAN railway; its construction, development, management and appliances. 1893.....qr656.673 A51
Contents: Introduction, by T. M. Cooley.—Building of a railway, by T. C. Clarke.—Feats of railway engineering, by John Bogart.—American locomotives and cars, by M. N. Forney.—Railway management, by E. P. Alexander.—Safety in railroad travel, by H. G. Prout.—Railway passenger travel, by Horace Porter.—Freight-car service, by Theodore Voorhees.—How to feed a railway, by Benjamin Norton.—Railway mail service, by T. L. James.—The railway in its business relations, by A. T. Hadley.—Prevention of railway strikes, by C. F. Adams.—Every-day life of railroad men, by B. B. Adams, jr.—Statistical railway studies, by F. W. Hewes.
- AMERICAN street railway investments; a supplement to the Street railway journal; annual. 6th annual volume—date. 1899—date.....qr656.673 A512
- BALTIMORE AND OHIO RAILROAD CO.
 Annual report (6th, 8th-9th, 16th-20th, 24th) of the president and directors to the stockholders, 1832, 1834-35, 1842-46, 1850. 1832-50.....r656.673 B21a
 The 8th and 9th annual reports will be found in a volume of pamphlets numbered, r38o D24.
- Laws, ordinances and documents relating to the company. 1840.....r656.673 B21

DREDGE, James.

Pennsylvania railroad; its organization, construction and management. 1879.....qr656.673 D81
Chiefly reprinted from "Engineering."

FARIES, Robert.

Report on the surveys to avoid the inclined planes on the Allegheny portage railroad. 1851.....r656.673 R15
Bound with other pamphlets.

HAGE, Hother.

Report relative to the survey of a rail road from Chambersburg to Pittsburg, and the survey of the Raystown branch of the Juniata river, with estimates of the cost of the work, by Hother Hage; and a Report of a survey and estimate of the cost of constructing a m'adamized or block road from Laughlinstown to Chambersburg, by Charles De Hass; read in Senate, Jan. 28, 1839. 1839.....r656.673 R15
Bound with other pamphlets.

MOTT, Edward Harold.

Between the ocean and the lakes; the story of Erie. 1899q656.673 M94
History of the New York and Erie railroad, including brief biographies of the presidents of the road.

OHIO AND PENNSYLVANIA RAILROAD CO.

Annual report (1st, 3d) of the president and directors to the stockholders. 1849-51.....r656.673 R15
The 1st annual report is a report to the president and directors, by S. W. Roberts, chief engineer.
Bound with other pamphlets.

PENNSYLVANIA—Auditor general's office.

Reports of the railroad companies of Pennsylvania, communicated by the auditor general to the legislature, 1863-1874. 1864-75.....r656.673 P399
Later reports include canals, telegraph and telephone companies.
By the constitution of 1873 railroad companies are required to report to the secretary of internal affairs instead of to the auditor general.

PENNSYLVANIA—Internal affairs department.

Annual report of the secretary; pt.4. Railroad, canal, navigation, telegraph and telephone companies, 1875-date. 1876-dater656.673 P3992
Earlier reports were issued by the auditor general.

PENNSYLVANIA RAILROAD CO.

Annual report (1st-3d) of the directors, 1847-49. 1847-50r656.673 R15
Bound with other pamphlets.

By-laws of the board of directors, 1847, with the charter, its supplement and other laws relating to railroads projected from Cumberland to Pittsburg and from Pittsburg east. 1847.....r656.673 R15
Bound with other pamphlets.

Catalogue of the exhibit at the World's Columbian exposition. 1893.....qr656.673 P39
The illustrations consist of photographs of early rolling-stock, bridges, etc., and of facsimiles of old advertisements, bills of lading, letters and telegrams relating to early railroad operation in the United States.

- Report of the investigating committee appointed by the stockholders, Mar. 10th, 1874. 1874.....qr656.673 P39r
- RAILROAD CONVENTION, Harrisburg, 1838.
- Proceedings. 1838.....r656.673 R15
- ROBERTS, Solomon White.
- Report to the president and directors of the Ohio and Pennsylvania rail-road company. 1849.....r656.673 R15
- Being the 1st annual report of the president and directors to the stockholders of the Ohio and Pennsylvania railroad company.
- Bound with other pamphlets.
- SIPES, William B.
- Pennsylvania railroad; its origin, construction, condition and connections; embracing notices of cities and objects of interest in Pennsylvania and New Jersey. 1875q656.673 S61
- The same.* 1875.....qr656.673 S61
- UNITED STATES—Interstate commerce commission.
- Annual report (1st-date) on the statistics of railways, for the year ending June 30, 1888—date. 1889—date.....r656.673 U25
- Fifth report is bound with r385 U25 v.7.
- VAN OSS, S. F.
- American railroads as investments. 1893.....656.673 V19
- Treats of railway conditions in the United States, giving financial and statistical data, and historical and descriptive sketches, of all the railways of importance. Written especially for English investors.
- WARMAN, Cy.
- Story of the railroad. 1898. (Story of the West series.)656.673 W23
- Pictures the building of the earlier transcontinental lines across the true West. Historically, the book is valuable because it gives a comprehensive sketch of a great subject in a brief compass, and, furthermore, the strange and picturesque phases of life which are depicted are full of immediate interest.
- The same.* 1903.....j656.673 W23
- WILSON, William Bender.
- History of the Pennsylvania railroad company; with plan of organization, portraits of officials, and biographical sketches. 2v. 1899.....656.673 W77
- The same.* 2v. 1899.....r656.673 W77

656.7 Road transportation

KIRKMAN, Marshall Monroe.

- Classical portfolio of primitive carriers; a picturesque account of the origin and evolution of transportation. 1895qr656.7 K28
- Contains many engravings portraying the primitive people of the world, and their methods of carriage in every age and quarter of the globe.

MOORE, Henry Charles.

- Omnibuses and cabs; their origin and history. 1902.....656.7 M87
- Entertaining, well-illustrated book which traces the history of omnibuses from the time of the famous Shillibeer, and still more remotely from the first conception of an omnibus in the brain of Blaise Pascal. The development of the cab is illustrated by some capital pictures, and there is much of interest about cab fares, cab strikes and cab accidents.

656.8 Navigation. Seamanship

FRY, Henry.

History of north Atlantic steam navigation. 1896.....r656.8 F97

Author is (1896) ex-president of the Dominion board of trade of Canada, and is a high authority on steam-navigation. The book includes histories of the principal north Atlantic lines of steamships.

HOLMES, George C. V.

Ancient and modern ships. v.1. 1900. (Victoria and Albert museum science handbooks.).....656.8 H73

v.1. WOODEN SAILING-SHIPS: Ancient ships in the Mediterranean and Red seas.—Ancient ships in the seas of northern Europe.—Medieval ships.—Modern wooden sailing-ships.—Description of an archaic Greek bireme.—Tonnage and its measurement at different times.

KNOX, Thomas Wallace.

Life of Robert Fulton and a history of steam navigation.

1886656.8 K35

NARES, Sir George Strong.

Seamanship. 1886.....r656.8 N13

PREBLE, George Henry.

Chronological history of the origin and development of steam navigation, 1543-1882. 1883.....656.8 P89

The same. 1883.....r656.8 P89

"Professes to be nothing more than a mere epitome of history, and as such is of value to...students, but will hardly prove of interest to general readers." *Van Nostrand's engineering magazine*, 1883.

UNITED STATES—Statistics bureau.

Shipping industry of the United States; its relation to the foreign trade. 1901. (Monthly summary of commerce and finance, Dec. 1900, p.1369-1428.).....q656.8 U25

UNITED STATES coast pilot; Atlantic coast. pt.1-8. 1898-1903. (United States—Coast and geodetic survey.)..qr656.8 U25

pt.1-2. From the St. Croix river to Cape Ann. Ed.2. 1903.

pt.3. From Cape Ann to Point Judith. Ed.2. 1903.

pt.4. From Point Judith to New York. Ed.3. 1899.

pt.5. From New York to Chesapeake bay entrance. Ed.2. 1898.

pt.6. Chesapeake bay and tributaries. Ed.2. 1902.

pt.7. From Chesapeake bay entrance to Key West. Ed.2. 1900.

pt.8. Gulf of Mexico, from Key West to the Rio Grande. Ed.2. 1901.

UNITED STATES coast pilot; Pacific coast. pt.1-2. 1901-03.

(United States—Coast and geodetic survey.).....qr656.8 U25u

pt.1. Alaska; Dixon entrance to Yakutat bay, with inland passage from Juan de Fuca strait to Dixon entrance. Ed.4. 1901.

pt.2. California, Oregon and Washington. 1903.

BARKER, David Wilson-

Manual of elementary seamanship. 1896.....656.81 B24

BULLEN, Frank Thomas.

Men of the merchant service; the polity of the mercantile marine, for 'longshore readers. 1900.....656.81 B87

"Affords...a clear account of the life, the work, the prospects, the qualifications needed, the conditions necessary to success in the merchant service, reviewing every phase of the career, and working through the whole ship's company from master down to ship's boy...The most serious point in Mr. Bullen's...book [is] the deterioration in quality of the English seaman, and he traces it without hesitation to its cause in the relaxation of discipline." *Spectator*, 1900.

CHADWICK, French Ensor, and others.

Ocean steamships. 1891.....656.81 C34

Contents: The development of the steamship, by F. E. Chadwick.—Speed in ocean steamers, by A. E. Seaton.—The building of an ocean

greyhound, by W. H. Rideing.—Ocean passenger travel, by J. H. Gould.—The ship's company, by J. D. J. Kelley.—Safety on the Atlantic, by W. H. Rideing.—The ocean steamship as a freight carrier, by J. H. Gould.—Steamship lines of the world, by Ridgely Hunt.

Interesting articles by experts. Intended for general reading.

KNIGHT, Austin M.

Modern seamanship. 1901.....656.81 K34

Written when the author was at the head of the department of seamanship at the U. S. naval academy, to supply a text-book which should meet the modern naval conditions, giving most attention to the full-powered steamer, but not neglecting the sailing vessel. It is as modern in method as in scope, and a valuable manual for yachts and merchant vessels as well as for men-of-war.

656.9 River navigation

GOULD, Emerson Willard.

Fifty years on the Mississippi; or, Gould's history of river navigation. 1889.....r656.9 G73

HABERMEHL, John.

Life on the western rivers. 1901.....656.9 H11

The author's personal experiences and observations of the boatmen, passengers, etc. on the Mississippi river and its tributaries 60 years ago.

LATROBE, John Hazlehurst Boneval.

First steamboat voyage on the western waters. 1871....r656.9 L36

Contains also "Pittsburgh pioneer steamboating; some reminiscences of an old captain (John Birmingham)."

Account of the voyage of the steamboat New Orleans (which was built at Pittsburgh) from Pittsburgh to New Orleans in the fall of 1811.

LLOYD, James T.

Steamboat directory. 1856.....r656.9 L75

Contains a history of the first use of steam as a motive power and of early steam-navigation on the western lakes and rivers, descriptions of steamboat disasters, short biographies of John Fitch and Robert Fulton. There is a short sketch of Pittsburgh and some account of the first steamboats built here. Many maps and illustrations.

MONONGAHELA NAVIGATION CO.

Annual report (2d-33d) of the president and managers, presented Jan. 1840-1873; with accompanying documents. 1840-73.....r656.9 M83

The 1st annual report was not published.

The same; (2d-4th, 7th). Ed.2. 1871-73.....r656.9 M83

Bound with the above.

Circular, and Opinion of the Supreme court on the tonnage tax. 1869.....r656.9 M83 v.3

Bound with other pamphlets.

VEECH, James.

History of the Monongahela navigation company.

1873r656.9 M83 v.3

Bound with other pamphlets.

657 Bookkeeping. Accounts

ADGIE, William.

Modern book-keeping and accounts. v.1-2. 1901-02.

(Hooper and Graham's series.).....657 A23

v.1. Elementary. v.2. Intermediate.

ARNOLD, Horace Lucian, (*pseud.* Henry Roland), *comp.*

Complete cost-keeper; some original systems of shop cost-keeping or factory accounting, with an exposition of

- the advantages of account keeping by means of cards.
1900657 A75c
- BROAKER, Franklin, & Chapman, R. M.
American accountants' manual. v.1. 1897.....657 B75
v.1 contains the examination questions prepared by the New York state
board of examiners of public accounts, with answers, 1897.
"Accountancy literature," p.185-187.
- DEWSON, Mary Williams, *comp.*
Twentieth century expense book, with an introduction by
Mrs E. H. Richards. 1900.....r657 D51
Blank cash-book and journal into which the cash-book items are to be
entered monthly. The journal is divided in such a way as to show at
a glance whether any side of the family life is absorbing more than its
proportion of the total income. The main divisions are "Housing,"
"Operating expenses," "Food," "Clothing," and "Higher life," each
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- Die zündwaaren-fabrikation in ihrer gegenwärtigen ausbildung, mit berücksichtigung der wichtigsten maschinen zum hobeln der hölzer, zum einlegen und ausnehmen, zur spanschachtel- und salonbüchsen-fabrikation, und der recepte zum zusammensetzen der zündwaaren. 1871. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r668.1 D38
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 Bound with Deite's "Die darstellung der seifen, parfümerien und cosmetica."

662.6 Fuel

CLARK, Daniel Kinnear, *ed.*

Fuel; its combustion and economy. 1879.....r662.6 C51

Consists of abridgments of "Treatise on the combustion of coal and the prevention of smoke," by C. W. Williams, and "The economy of fuel," by T. S. Prideaux, with additions on "Recent practice in the combustion and economy of fuel," by D. K. Clark.

FISCHER, Ferdinand.

Die chemische technologie der brennstoffe. v.1-2. 1897-1901662.6 F52

The same. v.1. 1880. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r662.6 F52

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Die untersuchung von feuerungs-anlagen; eine anleitung zur anstellung von heizversuchen. 1891. (Hartleben's chemisch-technische bibliothek.).....r662.6 J53

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Die torf-industrie; handbuch der gewinnung, verarbeitung und verwerthung des torfes im kleinen und grossen betriebe, sowie darstellung verschiedener producte aus torf. 1898. (Hartleben's chemisch-technische bibliothek.)r662.6 K36
Practical manual of all branches.

MILLS, Edmund James, & Rowan, F. J.

Fuel and its applications; ed. by C. E. Groves. 1889.
(Chemical technology, v.1.).....q662.6 M69
The same. 1889.....qr662.6 M69

Describes the various fuels, their applications and their value. Has sections on domestic heating, steam production, evaporation, distillation, on furnaces for metallurgical purposes, and kilns for brick, etc.

MUCK, F.

Die chemie der steinkohle. 1891.....r662.6 M94
Second enlarged edition of "Grundzüge und ziele der steinkohlenchemie."
Studies the chemical properties of coal and their relation to its commercial value. Tables give composition of a number of European varieties.

POOLE, Herman.

Calorific power of fuels; founded on Scheurer-Kestner's
Pouvoir calorifique des combustibles. 1900.....662.6 P79
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The same. 1898.....r662.6 P79
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Describes various calorimeters, and gives methods of determining the heating effect of fuels and of making steam-boiler trials. Includes very complete tables of the heating power and composition of the fuels of the world.

SEXTON, Alexander Humboldt.

Fuel and refractory materials. 1897.....662.6 S51
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SLOCUM, F. L. *comp.*

- Gas, coal and iron interests of western Pennsylvania, and
gas engineering tables. 1895.....r662.6 S63
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May 1895.
Illustrations and short descriptions of a number of plants.

662.7 Charcoal. Coke

BRECKON, J. R. *comp.*

- "Facts and figures" concerning the manufacture of coke,
and the collection of bye-products by the Simon-Carvès
process. 1884.....r662.7 B72
Written as an advertisement. Gives data concerning cost, economy,
production, etc.

DÜRRE, Ernst Friedrich.

- Die neueren cokesöfen unter berücksichtigung aller
neueren arbeiten und studien über die brennstoffe und
ihre trockene destillation. 1892.....qr662.7 D94
Summarizes progress in the study of natural fuels and of processes of
dry distillation during the period 1882-92. Includes descriptions and
drawings of a number of by-product coke-ovens.

FULTON, John.

- Coke; a treatise on the manufacture of coke and the saving
of by-products, with references to the methods and
ovens best adapted to the production of coke from
American coals. 1895.....662.7 F98

SVEDELIUS, Gustaf.

- Hand-book for charcoal burners. 1875.....r662.7 S96
Written for a prize offered by the government of Sweden, was duly ap-
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THENIUS, Georg.

- Die meiler- und retorten-verkohlung; die liegenden und
stehenden meiler, die gemauerten holz-verkohlungs-
oefen und die retorten-verkohlung. 1885. (Hartleben's
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Concise manual of the distillation and coking of wood. Treats especially
of the chemical products and their utilization.

WEEKS, Joseph Dame.

- Manufacture of coke in 1894. 1895.....qr553.46 W42
Extract from the 16th annual report of the director of the United States
geological survey, 1894-95.
Bound with his "Production of manganese."
Report on the manufacture of coke. 1885.....qr662.7 W42
Part of v.10 of the Final report on the 10th census, 1880.

662.8 Artificial fuel

JÜNEMANN, Friedrich.

- Die briquette-industrie und die brennmaterialien. 1881.
(Hartleben's chemisch-technische bibliothek.).....r662.8 J52

THWAITE, Benjamin Howarth.

- Gaseous fuel, including water gas. 1889.....662.8 T43
The same. 1889.....r662.8 T43

663 Beverages

- BLÄTTER für gersten-, hopfen- und kartoffelbau; zugleich organ des staatlichen versuchskornhauses in Berlin; [monthly]. v.2-3. 1900-01.....r663.05 B54
Publication ceased with v.3.
- JAHRBUCH des Vereins der spiritus-fabrikanten in Deutschland, des Vereins der stärke-interessenten in Deutschland und der brennerei-berufsgenossenschaft. 1er jahrgang-date. 1901-date.....r663.05 J15
Ergänzungsband zur "Zeitschrift für spiritusindustrie."
- ZEITSCHRIFT für spiritusindustrie; organ des vereins und der versuchsstation der spiritusfabrikanten in Deutschland; neue folge; [semimonthly and weekly]. v.1-date. 1878-dateqr663.05 Z43
Zweite folge der "Schwarzwälder'schen zeitschrift für deutsche spiritus-fabrikanten."
The same, ergänzungsheft. v.1-date. 1898-date.....qr663.05 Z43c

663.1 Fermented beverages. Fermentation

EFFRONT, Jean.

- Enzymes and their applications; English translation by S. C. Prescott. v.1. 1902.....663.1 E33
v.1. The enzymes of the carbohydrates; the oxidases.
Contains numerous bibliographies.
Theory and practice of use of diastatic ferments in brewing and distilling.

GREEN, Joseph Reynolds.

- Soluble ferments and fermentation. 1899.....663.1 G82
Bibliography, p.239-473.

HANSEN, Emil Christian.

- Practical studies in fermentation. 1896.....663.1 H24'

JÖRGENSEN, Alfred.

- Micro-organisms and fermentation. 1900.....663.1 J43
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Their morphology and biology. Clearly written review of present knowledge, by an investigator of high standing.

LAFAR, Franz.

- Technical mycology, the utilization of micro-organisms in the arts and manufactures; a practical handbook on fermentation and fermentative processes, for the use of brewers and distillers, analysts, technical and agricultural chemists, pharmacists and all interested in the industries dependent on fermentation. v.1-2. 1898-1903663.1 L14
v.1. Schizomycetic fermentation.
v.2. Eumycetic fermentation.

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PASTEUR, Louis.

- Studies on fermentation. 1879.....663.1 P28
Translation of "Études sur la bière."
Valuable biological study of the diseases of beer, their causes and the means of prevention.

SCHÜTZENBERGER, Paul.

- On fermentation. 1893. (International scientific series.)...663.1 S39
"Clear and concise statement of our present (1876) knowledge of fer-

mentation, and a brief history of the progress of opinion and research."
Douglas A. Spalding.

663.2 Wine

HENDERSON, Alexander.

History of ancient and modern wines. 1824.....qr663.2 H44

MAIER, Karl.

Die ausbrüche, secte und südweine; nebst einem anhang
enthaltend die bereitung der strohweine, rosinen-, hefe-,
kunst-, beeren- und kernobstweine. 1895. (Hartleben's
chemisch-technische bibliothek.).....r663.2 M26
Describes the natural wines, and gives receipts and methods for the
manufacture of fortified and artificial wines.

MOHR, Friedrich.

Der weinbau und die weinbereitungskunde. 1865. (Hand-
buch der chemischen technologie; hrsg. von P. A.
Bolley und anderen.).....r660 O31
Study of the theoretical principles underlying wine-making and of their
employment in practice.
Bound with Otto's "Lehrbuch der rationellen praxis der landwirtschaft-
lichen gewerbe."

PIAZ, Antonio dal.

Die champagner-fabrikation und erzeugung imprägnirter
schaumweine. 1892. (Hartleben's chemisch-technische
bibliothek.)r663.2 P53
Practical handbook giving brief descriptions of methods and machinery
used in manufacturing natural and artificial effervescing wines.

Die obstweinbereitung nebst obst- und beerenbranntwein-
brennerei. 1894. (Hartleben's chemisch-technische
bibliothek.)r663.2 P530
Treats of the manufacture of wine and brandy from apples, pears,
berries, etc.

Die verwerthung der weinrückstände. 1895. (Hartleben's
chemisch-technische bibliothek.).....r663.2 P53v

Die weinbereitung und kellerwirtschaft. 1900. (Hart-
leben's chemisch-technische bibliothek.).....r663.2 P53w
Brief practical manual of the manufacture of wine, by an experienced
wine-maker.

REDDING, Cyrus.

History and description of modern wines. 1836.....r663.2 R27
Popular work, describing the qualities, sources and methods of manu-
facture of the various wines in use at time of publication.

REGNER, Alfred von.

Die bereitung der schaumweine; mit besonderer berück-
sichtigung der französischen champagner-fabrikation.
1899. (Hartleben's chemisch-technische bibliothek.)...r663.2 R29
Describes in detail the manufacture of champagne and of effervescent
wines made by impregnation with gaseous carbonic acid.

THUDICHUM, John Louis William, & Dupré, August.

Treatise on the origin, nature and varieties of wine. 1872. .663.2 T42
Comprehensive account of viticulture and wine-making in all its branches.
Discusses thoroughly the chemistry of wine. A standard work.

663.3-663.4 Brewing. Beer

Der BAYERISCHE bierbrauer. *See* Zeitschrift für das
gesamnte brauwesen.

CASSIAN, Franz.

- Die dampf-brauerei; eine darstellung des gesammten brauwesens nach dem neuesten stande des gewerbes. 1887.
(Hartleben's chemisch-technische bibliothek.).....r663.3 C26
Theoretical and practical. Vienna, Bavarian and Bohemian beers are especially considered.

HABICH, G. E.

- Handbuch der bierbrauerei, auf grundlage von Habich, Schule der bierbrauerei; hrsg. von Conrad Schneider und Gottlieb Behrend. 1891.....663.3 H11
Thorough manual of all branches of the German brewing industries.

LEYSER, Emil.

- Die malz- und bierbereitung; ein handbuch zum selbstunterricht für praktiker sowie zum gebrauche an brauerschulen. 1900.....663.3 L67
The 10th edition of "Die bierbrauerei," by Philipp Heiss.
A standard text-book of German methods and practice. Thorough and accurate. Treats especially of thick mash beers.

WAHL, Robert, & Henius, Max, *ed.*

- American handy-book of the brewing, malting and auxiliary trades. 1901.....r663.3 W13
Bibliography, p.1157-1185.
Pocket encyclopedia, giving concise information as to standard American practice in the various industries connected with brewing.

WEBER, Karl.

- Die malz-fabrikation; eine darstellung der bereitung von grün-, luft- und darrmalz nach dem gewöhnlichen und den verschiedenen mechanischen verfahren. 1887.
(Hartleben's chemisch-technische bibliothek.).....r663.3 W37
Theoretical and practical handbook.

ZEITSCHRIFT für das gesammte brauwesen; [monthly and weekly], 1866-date. v.1-date. 1867-date.....qr663.3 Z43
v.1-12 title reads "Der bayerische bierbrauer."

FRIED, Wilhelm.

- Die keller der bierbrauereien. 1900.....663.4 F94
Describes methods of construction, materials, heating and cooling arrangements, etc. Clear and practical.

RÜDINGER, Hermann.

- Die bierbrauerei und die malzextract-fabrikation. 1887.
(Hartleben's chemisch-technische bibliothek.).....r663.4 R83
Practical handbook for brewers and brewery chemists.

663.5 Distilling

BRIEM, Hermann.

- Die rübenbrennerei; dargestellt nach den praktischen erfahrungen der neuzeit. 1888. (Hartleben's chemisch-technische bibliothek.).....r663.5 B74
"Die literatur der rübenbrennerei," p.12-15.
Treats of manufacture of rum and alcohol from sugar-beets and beet sugar molasses.

EIDHERR, Eduard.

- Der chemisch-technische brennereileiter; populäres handbuch der spiritus- und presshefe-fabrikation. 1898.
(Hartleben's chemisch-technische bibliothek.).....r663.5 E39
Concise explanation of the chemistry and technology of distillation.
Describes processes, machinery, etc.

GABER, August.

Die fabrikation von rum, arrak, cognac und allen arten von obst- und fruchtenbranntweinen. 1898. (Hartleben's chemisch-technische bibliothek.).....r663.5 G11

Die liqueur-fabrikation. 1899. (Hartleben's chemisch-technische bibliothek.).....r663.5 G111

Describes the raw materials, processes, etc. used, and gives numerous formulæ for liqueurs, crèmes, brandies, etc.

Der praktische destillateur und spirituosenfabrikant; hand- und hilfsbuch für destillateure, liqueur- und spirituosenfabrikanten. 1901. (Hartleben's chemisch-technische bibliothek.)r663.5 G11p

Pays special attention to the physical and chemical properties of the raw materials and the products, giving methods of analysis, etc. Intended primarily as a companion to treatises on distillation and liqueur manufacture.

GUICHARD, Pierre.

Traité de distillerie: Chimie du distillateur. 1895. (Encyclopédie de chimie industrielle.).....r663.5 G96tr

Summarizes the chemical properties of the various alcohols, sugars and their derivatives of importance in commercial distillation, and gives directions for their chemical identification and estimation.

Traité de distillerie: Industrie de la distillation; levures et alcools. 1897. (Encyclopédie de chimie industrielle.)..r663.5 G96t

Considers the various steps in the manufacture of alcohol both theoretically and practically. Good brief summary of French practice.

Traité de distillerie: Microbiologie du distillateur; ferments et fermentation. 1896. (Encyclopédie de chimie industrielle.)r663.5 G96

Handbook of the chemistry and biology of ferments, for chemists, distillers, etc.

MAERCKER, Maximilian.

Handbuch der spiritusfabrikation. 1894.....r663.5 M24

PIAZ, Antonio dal.

Die cognac- und weinsprit-fabrikation, sowie die trester- und hefebranntwein-brennerei. 1891. (Hartleben's chemisch-technische bibliothek.).....r663.5 P53

Describes machinery and processes.

REIS, Josef.

Bereitung der brennerei-kunsthefe. 1883. (Hartleben's chemisch-technische bibliothek.).....r663.5 R32

Brief theoretical and practical handbook for yeast-makers.

WILFERT, Adolf.

Die kartoffel- und getreidebrennerei. 1885. (Hartleben's chemisch-technische bibliothek.).....r663.5 W71

Practical handbook on the distillation of spirits from potatoes and grain, including maize and rice.

663.6 Soda-water

DUBELLE, George H. *ed.*

"Non plus ultra" soda fountain requisites of modern times; a practical receipt book comprising all the latest novelties and specialties for soda fountain beverages. 1893..663.6 D85

MEITZ, Oskar.

Die fabrikation der moussirenden getränke; praktische anleitung zur fabrikation aller moussirenden wässer,

- limonaden, weine, u. s. w., gründliche beschreibung der hiezu nöthigen apparate; neu bearbeitet und erweitert von E. Luhmann. 1897. (Hartleben's chemisch-technische bibliothek.).....r663.6 M57
- WENDER, Max, & Neumann.
- Praktische anleitung zur fabrikation kohlensäurehaltiger erfrischungs- und luxus-getränke. 1898.....qr663.6 W51
- Handbook for the manufacturer and dispenser of carbonated beverages, describing machinery and apparatus, chemicals used, etc.

663.9 Chocolate. Coffee

SALDAU, Ernst.

- Die chocolade-fabrikation. 1881. (Hartleben's chemisch-technische bibliothek.).....r663.91 S16
- Directions for making the different commercial varieties, descriptions of machinery used, properties of cacao and methods of analysis and of testing for adulterants are given.

LEHMANN, Karl.

- Die fabrikation des surrogatkaffees und des tafelsenfes. 1893. (Hartleben's chemisch-technische bibliothek.)...r663.93 L55
- Describes methods, materials and machinery used. Gives receipts.

664 Foods. Preserving

For Food adulterations, see 614.3; for Food analysis, see 543.1

CAPAUN-KARLOWA, C. F.

- Unsere lebensmittel; eine anleitung zur kenntniss der vorzüglichsten nahrungs- und genussmittel, deren vorkommen und beschaffenheit in gutem und schlechtem zustande, sowie ihre verfälschungen und deren erkennung. 1879. (Hartleben's chemisch-technische bibliothek.)r664 C18

RUPRECHT, Karl.

- Die fabrikation von albumin und eierconserven. 1882. (Hartleben's chemisch-technische bibliothek.).....r664 R88
- Describes the properties and manufacture of albumin, the methods of preserving eggs and egg products and methods for analyzing albumin.

BERSCH, Wilhelm.

- Die fabrikation von stärkezucker, dextrin, maltosepräparaten, zuckercouleur und invertzucker; ein handbuch für stärke-, stärkezucker- und invertzucker-fabrikanten. 1901. (Hartleben's chemisch-technische bibliothek.)...r664.1 B46
- Good brief treatise. Describes chemistry and practice. Devotes considerable space to methods of analysis for sugar laboratories.

REGNER, Richard von.

- Die fabrikation des rübenzuckers; nebst einem anhang über die verwerthung der nachproducte und abfälle, etc. 1879. (Hartleben's chemisch-technische bibliothek.)r664.1 R29
- Brief description from practical point of view.

STEYDN, Ernst.

- Die fabrikation des rübenzuckers. 1893. (Hartleben's chemisch-technische bibliothek.).....r664.1 S85f
- Text-book covering briefly both theory and practice.

- Die untersuchung des zuckers und zuckerhaltiger stoffe, sowie der hilfsmaterialien der zuckerindustrie. 1893. (Hartleben's chemisch-technische bibliothek.).....r664.1 S85
- SYKORA, W. & Schiller, F.
Kurzgefasste chemie der rübensaft-reinigung, zum gebrauche für praktische zuckerfabrikanten. 1881. (Hartleben's chemisch-technische bibliothek.).....r664.1 S98
Explains in simple language the chemistry of the processes used in preparing beet juice for use in making sugar.
- OERTEL, Friedrich.
Die teigwaren-fabrikation; mit einem anhang, "Die panier- und mutschelmehl-fabrikation." 1885. (Hartleben's chemisch-technische bibliothek.).....r664.2 O15
- REHWALD, Felix.
Die stärke-fabrikation und die fabrikation des traubenzuckers. 1895. (Hartleben's chemisch-technische bibliothek.)r664.2 R29
Describes the manufacture of all the commercial varieties of starch, dextrine, glucose and other starch derivatives.
- LANG, Victor.
Die fabrikation von kunstbutter, sparbutter und butterine. 1895. (Hartleben's chemisch-technische bibliothek.)...r664.3 L23
Outlines methods used for making butter and butterine in large factories.
- UNITED STATES—Agriculture and forestry committee.
Report, with the views of the minority, on oleomargarine and other imitation dairy products, etc., Jan. 26, 1901. (56th cong. 2d sess. Senate. Report no.2043.).....r664.3 U25
- FÜRER, F. A.
Salzbergbau- und salinenkunde. 1900.....r664.4 F98
Treats of the occurrence, properties and methods of obtaining and refining common salt. Thorough, up-to-date description of the subject.
- BERSCH, Josef.
Die essig-fabrikation. 1895. (Hartleben's chemisch-technische bibliothek.).....r664.5 B46
Good practical description of various methods of manufacturing vinegar and acetic acid.
- Der rationelle betrieb der essig-fabrikation und die controle derselben. 1901. (Hartleben's chemisch-technische bibliothek.)r664.5 B46r
Practical handbook for vinegar-makers. Describes the raw materials, acetic acid bacteria, processes, etc.
- WILFERT, Adolf.
Presshefe, kunsthefe und backpulver. 1890. (Hartleben's chemisch-technische bibliothek.).....r664.6 W71
Practical manual of their manufacture. But little space is given to baking-powders.
- ANDÉS, Louis Edgar.
Das conserviren der nahrungs- und genussmittel; fabrikation von fleisch-, fisch-, gemüse, obst-, etc. conserven. 1894. (Hartleben's chemisch-technische bibliothek.)...r664.8 A55
Gives methods of preserving beer, butter, fats, tobacco, eggs, ice, vinegar, fish, meats, meat extracts, fruits, vegetables, grain, spices, yeast, hops, cheese, coffee, tea, potatoes, malt, flour, milk, sauces, mustard, fodder, water and wine.
- BERSCH, Josef.
Die conservierungsmittel; ihre anwendung in den gährungs-

- gewerben und zur aufbewahrung von nahrungsstoffen.
 1882. (Hartleben's chemisch-technische bibliothek.)...r664.8 B46
 Elementary description of various processes and chemicals used as preservatives, with practical directions for preserving foods, fermented drinks, etc.
- DUCKWALL, Edward W.**
 Bacteriology applied to the canning and preserving of food products. 1899.....664.8 D86
 Brief elementary treatise on bacteriology in relation to canning, and its applications in the canning of corn, tomatoes, etc.
- MERGES, Nicolaus.**
 Die internationale wurst- und fleischwaarenfabrikation.
 1889. (Hartleben's chemisch-technische bibliothek.)...r664.9 M63
- WENGER, Georg.**
 Chemie und technik im fleischer-gewerbe. 1898. (Hartleben's chemisch-technische bibliothek.).....r664.9 W52

665 Oils. Gases. Candles

- BOLLEY, Pompejus Alexander.**
 Das beleuchtungswesen; nebst einem anhang über elektrische beleuchtung, von Gustav Wiedemann. 1862. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r665 B61
 Bibliography, p.322-326.
 Chiefly devoted to candles and gas-lighting; lamps for oil and electricity are briefly considered. Treats of raw materials, methods of manufacture, value, etc.
- BRANNT, William Theodore, ed.**
 Practical treatise on animal and vegetable fats and oils.
 2v. 1896.....665 B71
The same. 1888.....r665 B71
 Contents: Fixed fats and oils.—Volatile or essential oils.—Lubricants. Contains a list of United States patents on oils and fats, 1790-1896.
- BRUNNER, Richard.**
 Die fabrikation der schmiermittel, der schuhwichse und lederschmiere. 1897. (Hartleben's chemisch-technische bibliothek.)r665 B83
 Chiefly a collection of formulæ for lubricants for sewing-machines, watches and wagons, and oils and greases for shoes, leather, etc., with some discussion of the raw materials and methods of extraction of oils.
- CARPENTER, William Lant.**
 Treatise on the manufacture of soap, candles, lubricants and glycerin. 1895.....665 C22
 Bibliography, p.422-424.
- HURST, George H.**
 Lubricating oils, fats and greases; their origin, preparation, properties, uses and analysis. 1896.....665 H95
- KRÄTZER, Hermann.**
 Die fabrikation der deutschen, französischen und englischen wagen-fette. 1888. (Hartleben's chemisch-technische bibliothek.).....r665 K41
 Brief compilation of receipts and directions.
- LEWKOWITSCH, Julius.**
 Laboratory companion to fats and oils industries. 1901...r665 L67
 Contents: System and examination of fats and waxes.—Fats, oils and

waxes, and the commercial products derived therefrom.—General tables. Tables intended to contain all numerical values necessary in the examination of fats and oils.

LIGHTING. 1895. (Chemical technology, v.2.).....q665 L69

Contents: Fats and oils, by W. Y. Dent.—Stearine industry, by J. McArthur.—Candle manufacture, by L. Field and F. A. Field.—The petroleum industry, and Lamps, by Boverton Redwood.—Miners' safety lamps, by Boverton Redwood and D. A. Louis.

The same. 1895.....qr665 L69

Readable treatise on the application of fats, oils and waxes to lighting, covering the various subjects in considerable detail.

PERL, Eduard.

Die beleuchtungsstoffe und deren fabrikation; ein handbuch für fabrikanten, händler von leuchtmaterialien, kaufleute und hauswirthe. 1876. (Hartleben's chemisch-technische bibliothek.).....r665 P43

PRACTICAL compounding of oils, tallow and grease for lubrication, etc., by an expert oil refiner. 1898.....665 P88

Numerous receipts for compounding oils for special uses are given, with some hints and cautions. Treatment is superficial and of little value to experienced oil-makers.

REDWOOD, Iltyd I.

Lubricants, oils and greases, treated theoretically and giving practical information regarding their composition, uses and manufacture. 1898.....665 R27

SEDNA, Ludwig.

Das wachs und seine technische verwendung. 1886.

(Hartleben's chemisch-technische bibliothek.).....r665 S44

Describes the various animal, vegetable and mineral waxes of commercial importance, methods of obtaining and preparing them, and of making various specialties for technical and medicinal purposes.

THALMANN, Friedrich.

Die fette und oele; darstellung der gewinnung und der eigenschaften aller fette, oele und wachsorten, der fett- und oelraffinerie und der kerzen-fabrikation. 1892.

(Hartleben's chemisch-technische bibliothek.).....r665 T33

WRIGHT, Charles Romley Alder.

Animal and vegetable fixed oils, fats, butters and waxes; their preparation and properties, and the manufacture therefrom of candles, soaps and other products. 1894. 665 W93
Bibliography, p.6.

Good general description of the oils and fats, and of their technological applications. Does not devote much space to the chemical methods of detecting adulterants.

NATIONAL oil journal; [monthly and semimonthly], Feb.

1873–Sept. 15, 1875. v.3–5, in 1. 1873–75.....qr665.05 N15
v.3, no.1; v.5, no.14–19 wanting.

ENGELHARDT, Alwin.

Handbuch der kerzen-fabrikation. 1887. (Hartleben's chemisch-technische bibliothek.).....r665.1 E63

Concise manual of materials, machines and processes used in making the various kinds.

665.2-665.3 Animal and vegetable oils and fats

ANDÉS, Louis Edgar.

Animalische fette und oele; ihre praktische darstellung, reinigung, verwendung zu den verschiedensten

- zwecken, ihre eigenschaften, verfälschungen und untersuchung. 1897. (Hartleben's chemisch-technische bibliothek.)r665.2 A55
- The same.* 1897. (Hartleben's chemisch-technische bibliothek.)r665.2 A55
- Among the more important subjects are butter, oleomargarine, lard and tallow.
- Die trocknenden oele; ihre eigenschaften, zusammensetzung und veränderungen, sowie fabrikation der firnisse aus denselben zu anstrichen und für buchdrucker, genaue darstellung der fabrikation aller anstrich-, buchdruck-, stein- und kupferdruckfarben. 1882. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r661.11 F52
- Bound with Fischer's "Die chemische technologie des wassers."
- Vegetabilische fette und oele; ihre praktische darstellung, reinigung, verwerthung zu den verschiedensten zwecken, ihre eigenschaften, verfälschungen und untersuchung. 1896. (Hartleben's chemisch-technische bibliothek.) ..r665.3 A55
- Concise summary of information relating to this industry.

665.4 Mineral oils. Paraffin

ANDÉS, Louis Edgar.

- Vegetabilische und mineral-maschinenöle, (schmiermittel); deren fabrikation, raffinirung, entsäuerung, eigenschaften und verwendung. 1893. (Hartleben's chemisch-technische bibliothek.)r665.4 A55
- Describes raw materials used, methods of manufacture and testing lubricants, various special formulæ, instruments for using lubricants and oil filters.

BERLINERBLAU, Joseph.

- Das erdwachs; ozokerit und ceresin; geschichte vorkommen, gewinnung und verarbeitung. 1897. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r665.4 S32
- Descriptions apply especially to practice and conditions in Austro-Hungary.
- Bound with Scheithauer's "Die fabrikation der mineralöle."

BRUNTON, Richard Henry.

- Production of paraffin and paraffin oils, with an abstract of the discussion upon the paper; ed. by James Forrest. 1881665.4 B83
- Reprinted from the "Minutes of proceedings of the Institution of civil engineers," v.66.
- Describes methods used in Scotland for producing oil from bituminous shale.

GESNER, Abraham.

- Practical treatise on coal, petroleum and other distilled oils. 1865r665.4 G33
- The same.* 1865665.4 G33

REDWOOD, Iltyd I.

- Practical treatise on mineral oils and their by-products. 1897665.4 R27

SCHEITHAUER, W.

- Die fabrikation der mineralöle und des paraffins aus

schweelkohle, schiefer, etc., sowie die herstellung der kerzen und des oelgases. 1895. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r665.4 S32
 Being v.2 of "Die industrie der mineralöle."
 Thorough technical description of the distillation of lignite, bituminous shale, turf, etc., and of the preparation of the various products for use.

665.5 Petroleum

ANTISELL, Thomas.

Manufacture of photogenic or hydro-carbon oils. 1859.....r665.5 A63

BRANNT, William Theodore, *ed.*

Petroleum, with the occurrence and uses of natural gas; ed. chiefly from the German of Hans Hoefler and Alexander Veith. 1895.....r665.5 B71

Contents: History of petroleum; History of the petroleum industry in the United States, Galicia, Roumania, Russia and other countries.—Division and nomenclature of bitumen.—Physical and physiological properties of petroleum.—Chemical constitution of petroleum.—Occurrence of petroleum.—Origin of petroleum.—Boring; Conveyance; Transportation.—Crude oil.—Manufacture.—Manufacture of paraffin.—Methods of testing oils.—Uses and properties of petroleum.—Natural gas and oil gas.—Useful tables.

Compilation in simple form of matter relating to the history, geology, mining, manufacture and use of petroleum.

BURGMANN, Arthur.

Petroleum und erdwachs; darstellung der gewinnung von erdöl und erdwachs. 1897. (Hartleben's chemisch-technische bibliothek.).....r665.5 B91

HÖFER, Hans, & Veith, Alexander.

Das erdöl-industrie. 2v. in 1. 1888-92. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r665 B61

Contents: Das erdöl und seine verwandten, by Hans Höfer.—Das erdöl und seine verarbeitung, by Alexander Veith.

Bibliography, p.578-586.

Being v.1 of "Die industrie der mineralöle."

Careful, thorough treatise covering the natural history, geology and technology of petroleum.

Bound with Bolley's "Das beleuchtungswesen."

NEUBURGER, Henry, & Noalhat, Henri.

Technology of petroleum; the oil fields of the world, their history, geography and geology, annual production, prospecting and development; tr. fr. the French by J. G. McIntosh.

1901q665.5 N25

Does not treat of methods of refining. Gives some useful data regarding methods and cost of drilling.

REDWOOD, Boverton, & Holloway, G. T.

Petroleum. 2v. 1896.....665.5 R27

v.1. General historical account of the petroleum industry.—The geological and geographical distribution of petroleum and natural gas.—The chemical and physical properties of petroleum and natural gas.—The origin of petroleum and natural gas.—The production of petroleum, natural gas and ozokerite.—The refining of petroleum.

v.2. The shale oil and allied industries.—The transport, storage and distribution of petroleum.—The testing of crude petroleum, petroleum and shale oil products, ozokerite and asphalt.—The uses of petroleum and its products.—Statutory, municipal and other regulations relating to the testing, storage, transport and use of petroleum and its products.—Statistics.—Marine transport of petroleum.—Import duties levied on petroleum.

- The same.* 2v. 1896.....r665.5 R27
 The best book yet written (1901) on this subject. Author has been for many years closely connected with the petroleum industries as a chemical expert, and writes largely from personal experience.
- ROSSMÄSSLER, F. A.
 Lehrbuch der verarbeitung der naphtha oder des erdöles auf leucht- und schmieroile. 1886. (Hartleben's chemisch-technische bibliothek.).....r665.5 R74
- THOMSON, Jocelyn Home, & Redwood, Boverton.
 Handbook on petroleum; for inspectors under the petroleum acts and for those engaged in the storage, transport, distribution and industrial use of petroleum and its products and calcium carbide, with suggestions on the construction and use of mineral oil lamps. 1901..665.5 T38
 Especially devoted to a discussion of safe methods for the transportation, storage and distribution of petroleum. Includes a brief discussion of the technology of petroleum.
- 665.7 Illuminating gas**
- BROWN'S directory of American gas companies; gas statistics. 1890, 1894, 1899. 3v. 1890-99.....r665.7 B82
- BUTTERFIELD, William John Atkinson.
 Gas manufacture, the chemistry of; a practical handbook on the production, purification and testing of illuminating gas, and the assay of the bye-products of gas manufacture. 1898.....665.7 B98
 Contains a chapter on acetylene, p.352-398.
- CLEGG, Samuel.
 Practical treatise on the manufacture and distribution of coal-gas. 1866.....qr665.7 C55
- COGLIEVINA, Domenico.
 Theoretisch-praktisches handbuch der gas-installation. 1889. (Hartleben's chemisch-technische bibliothek.)...r665.7 C66
 Manual of theoretical and practical information for gas-engineers. Treats of photometry, value of gas for various purposes, methods of measuring, distributing, etc.
- COOPER, Thomas, 1759-1840.
 Some information concerning gas lights. 1816.....r665.7 C78
- GRAHAM, David Allan.
 Treatise on the comparative commercial values of gas coals and cannels. 1882.....665.7 G76
- HORNBY, John.
 Text book of gas manufacture for students. 1896. (Technological handbooks.).....665.7 H79
- The same.* 1896. (Technological handbooks.)r665.7 H79
 Elementary résumé of the subject.
- HUGHES, Samuel.
 Gas works; their construction and arrangement and the manufacture and distribution of coal gas; rewritten by William Richards. 1892.....665.7 H89
- The same.* 1885r665.7 H89
 Small volume, giving a good general description of the subject.
- HUMPHRYS, Norton Henry.
 Chemistry of illuminating gas. 1891.....665.7 H92

- Consists mainly of articles written for the "Journal of gas lighting."
The same. 1891r665.7 H92
 "Record of the various gas-making processes that have been proposed
 ...with some account of the natural laws that govern the manufacture
 and supply of illuminating gas." *Preface.*
- HUNT, Charles.
 Gas lighting. 1900. (Chemical technology, v.3.)q665.7 H93
The same. 1900.qr665.7 H93
 Discusses in detail the manufacture of coal, oil and water gases for
 illuminating, their purification, distribution and use. Covers the en-
 tire industry in a general way.
- INTERNATIONAL ENGINEERING CONGRESS, Glas-
 gow, 1901.
 Proceedings of section 8: Gas; ed. by J. W. Helps. [1901.] .r665.7 I24
- KING, William Boughton, *pub.*
 Treatise on the science and practice of the manufacture
 and distribution of coal gas; ed. by Thomas New-
 bigging and W. T. Fewtrell. 3v. in 2. 1878-82.qr665.7 K26
- MATTHEWS, William, *engineer.*
 Historical sketch of the origin, progress and present state
 of gas-lighting. 1827.r665.7 M47
 Author saw Murdoch's first public exhibition in 1802 and was more
 or less closely in touch with the later developments. Appendixes
 contain accounts by Murdoch, Winsor and Clegg of their several
 inventions.
- MÜLLER, A.
 Die gasbeleuchtung im haus und die selbsthilfe des gas-
 consumenten. 1881. (Hartleben's chemisch-technische
 bibliothek.)r665.7 M95
- NEWBIGGING, Thomas.
 Handbook for gas engineers and managers. 1898665.7 N26
- O'CONNOR, Henry.
 Gas engineer's pocket-book. 1898.r665.7 O13
- RICHARDS, William, *civil engineer.*
 Practical treatise on the manufacture and distribution of
 coal gas. 1877.qr665.7 R41
 Manual for gas-engineers. Treats of machinery and methods, giving
 designs, plans and specifications for gas-works installations.
- THENIUS, Georg.
 Die fabrikation der leuchtgase nach den neuesten forschung-
 en; nebst einem anhang ueber die untersuchung der
 leuchtgase nach den neuesten methoden. 1891. (Hart-
 leben's chemisch-technische bibliothek.)r665.7 T34
 Brief practical manual. Describes manufacture of gas from coal, lignite,
 wood, petroleum and other carbonaceous materials, water-gas, etc.
 Treats also of the utilization of by-products and residues from retorts,
 and methods of distributing and consuming gas.

665.705 Periodicals

AMERICAN GAS LIGHT ASSOCIATION.

- Report of proceedings of the semi-annual meeting held at
 Washington, May 12th, 1875, and annual meetings held
 at New York city, Oct. 20th, 1875, and Oct. 18th, 1876.
 1877r665.705 A512
- AMERICAN gas light journal; weekly, 1888, Jan.-June 1890.
 v.48-49, 52, in 2. 1888-90.qr665.705 A51

ASSOCIATION OF GAS ENGINEERS AND MANAGERS,
England.

Report of proceedings, 1893-date. 1894-date.....r665.705 A84

DEUTSCHER verein von gas und wasserfachmännern.

See Journal für gasbeleuchtung.

INCORPORATED GAS INSTITUTE.

Transactions; report of the annual meeting (1st-39th).

1864-1902r665.705 I242

1864-81 title reads "Report of the proceedings of the annual meeting" and the association is called British association of gas managers. Between 1881 and 1890 the association is called Gas institute.

Volume for 1902 contains "Subject-matter index of the proceedings at the meetings of the British association of gas managers and the Gas institute from 1863 to 1902 inclusive."

Merged, Nov. 29, 1902, with the Incorporated institution of gas engineers to form the Institution of gas engineers.

INCORPORATED INSTITUTION OF GAS ENGINEERS.

Transactions, 1891-1902. 12v. 1892-1902.....r665.705 I24

Merged, Nov. 29, 1902, with the Incorporated gas institute to form the Institution of gas engineers.

JOURNAL für gasbeleuchtung und verwandte beleuchtungsarten; [monthly and weekly]. v.1-date. 1858-dateqr665.705 J466

———General-register, 1858-1873, v.1-16. 1875.

———General-register, 1874-1888, v.17-31. 1889.

v.33-date title reads "Schilling's journal für gasbeleuchtung und verwandte beleuchtungsarten sowie für wasserversorgung; organ des Deutschen vereins von gas- und wasserfachmännern."

SCHILLING'S journal für gasbeleuchtung. *See Journal für gasbeleuchtung.*

665.8 Acetylene. Carbon dioxide

GIBBS, William E.

Lighting by acetylene; generators, burners and electric furnaces. 1898.....665.8 G36

Popular exposition of methods and appliances used. Contains a list of United States patents on calcium carbid and acetylene apparatus to February 22, 1898.

LEWES, Vivian B.

Acetylene; a handbook for the student and manufacturer.

1900665.8 L67

Most exhaustive and authoritative treatise on the subject, (1900).

THOMPSON, G. F.

Acetylene gas, its nature, properties and uses; also calcium carbide, its composition, properties and method of manufacture. 1898.....665.8 T38

The same. 1898.....r665.8 T38

Short popular work, dealing especially with the use of acetylene as an illuminant.

LUHMANN, E.

Die kohlen säure; eine ausführliche darstellung der eigenschaften, des vorkommens, der herstellung und der technischen verwendung dieser substanz. 1885. (Hartleben's chemisch-technische bibliothek.).....r665.81 L97

665.9 Incandescent gas-lighting

CASTELLANI, L.

- Das gasglühlicht, die fabrikation der glühnetze ("strümpfe");
 übersetzung und bearbeitung von M. L. Baczewski. 1901.
 (Hartleben's chemisch-technische bibliothek.).....r665.9 C26
 Contains an historical sketch of incandescent gas-lighting, the sources,
 chemical and physical properties of the chemicals used, and practical
 directions for making the incandescent mantles.

FERROUX, Jules.

- Manière de fabriquer soi-même les capuchons à incandes-
 cence par le gaz. 1897.....r665.9 P44

TRUCHOT, P.

- L'éclairage à incandescence par le gaz et les liquides
 gazéfiés. 1899. (Bibliothèque de la Revue générale des
 sciences.)665.9 T77
 Describes the different systems, and the practical carrying-out of those
 in common use.

666 Ceramics. Glass

SHAW, Simeon.

- Chemistry of the several natural and artificial heterogeneous
 compounds used in manufacturing porcelain, glass and
 pottery. 1900.....q666 S53
 Reprint of the edition of 1837.
 While the theoretical part is exceedingly old-fashioned, and does not
 conform to modern views of chemistry, there is much of value on the
 practical side which has not been given elsewhere.

THONINDUSTRIE-ZEITUNG; fachzeitung für die interes-

- sen der ziegel-, verblendstein-, chamotte-, töpferwaren-,
 steingut-, porzellan-, gips-, kalk-, cement-, cement-
 waren- und kunststeinindustrie sowie des betonbaues;
 [triweekly]. v.22-date. 1898-date.....qr666.05 T39
 v.22, no.1-30; v.23, no.9; v.26, no.50 wanting.

666.1 Glass

APPERT, Léon, & Henrivaux, Jules.

- Le verre et ses nouvelles applications.....qr666.1 A64
 Extrait de la Revue technique de l'Exposition universelle de 1889.
 Verre et verrerie. 2v. 1894. (Encyclopédie industrielle.)..q666.1 A64
 v.1. Texte. v.2. Atlas.

ARNOUX, L. and others.

- Pottery; Glass and silicates; Furniture and woodwork. 1877.
 (British manufacturing industries.).....666.1 A76
 Contents: Pottery, by L. Arnoux.—Glass and silicates, by F. S. Barff.—
 Furniture and woodwork, by J. H. Pollen.

BARBER, Edwin AtLee.

- American glassware, old and new; a sketch of the glass
 industry in the United States, and manual for collectors
 of historical bottles. 1900.....666.1 B23
 Brief historical sketch of the industry with a list of all known designs
 of historical bottles, or bottles designed to commemorate notable
 events or persons.

BENRATH, H. E.

Die glasfabrikation. 1875.....666.I B44
Bibliography, p.485-487.

The same. 1880. (Handbuch der chemischen technologie;
hrsg. von P. A. Bolley und anderen.).....r666.I F62
Bibliography, p.485-487.
Bound with Fleck's "Die fabrikation chemischer producte aus thierischen
abfällen."

BISER, Benjamin Franklin.

Elements of glass and glass making; a treatise designed
for the practical glassmaker, comprising facts, figures,
recipes and formulas for the manufacture of glass, plain
and colored. 1899.....666.I B49

The same. 1899.....r666.I B49
Collection of notes. Follows American practice. Presupposes a knowl-
edge of the subject.

BOLAS, Thomas.

Glass blowing and working, for amateurs, experimentalists
and technicians. 1898.....666.I B59
"Bibliography of glass," p.207-209.

BONTEMPS, Georges.

Guide du verrier; traité historique et pratique. 1868.....666.I B62

CREMER, Ferdinand.

Die fabrikation der silber- und quecksilber-spiegel; oder,
Das belegen der spiegel auf chemischem und mecha-
nischem wege. 1888. (Hartleben's chemisch-technische
bibliothek.)r666.I C87
Brief manual for practical workmen.

DRALLE, Robert.

Anlage und betrieb der glasfabriken, mit besonderer
berücksichtigung der hohlglasfabrikation, mit einem
atlas. 2v. 1886.....q666.I D78

FALKE, Jakob von, & Lobmeyr, Ludwig.

Die glasindustrie. 1875.....r666.I F19
Officieller ausstellungs-bericht herausgegeben durch die general-direc-
tion der Weltausstellung, 1873.

FIELD, Kate.

Drama of glass.....666.I F45
Little book of 46 pages on glass manufacture.

FISCHER, Franz, (pseud. Wilhelm Mertens).

Die fabrikation und raffinirung des glases. 1889.....666.I F52f
General treatise, covering the chief divisions of the industry briefly and
practically.

Die kunst der glasmalle-verarbeitung. 1892.....666.I F52

Das sandstrahl-gebläse im dienste der glasfabrikation.
1891666.I F52s
Describes briefly methods of etching and decorating glass by means of
the sand-blast.

FLECK, Hugo.

Die fabrikation chemischer producte aus thierischen ab-
fällen. 1880. (Handbuch der chemischen technologie;
hrsg. von P. A. Bolley und anderen.).....r666.I F62

Contents: Die phosphorfabrikation.—Die leimfabrikation.—Fabrikation
des blutlaugensalzes.—Fabrikation von Pariser und Berliner blau.—
Fabrikation von ammoniaksalzen.—Fabrikation des salmiakgeistes.
Bibliography, p.163-169.

Theoretical and practical description of the manufactures named.

GERNER, Raimund.

Die glas-fabrikation; eine übersichtliche darstellung der gesammten glasindustrie, mit anleitung zur herstellung aller sorten von glas und glaswaaren. 1897. (Hartleben's chemisch-technische bibliothek.).....r666.I G32

GESSNER, Frank M. *ed.*

Glassmakers' handbook. 1891.....r666.I G33

HENRIVAUX, Jules.

Le verre et le cristal; suivi d'un chapitre sur la législation et l'hygiène des verreries, par A. Riche, avec un atlas. 2v. 1897.....q666.I H44

HERMANN, Felix.

Die glas-, porzellan-, und email-malerei in ihrem ganzen umfange. 1894 (Hartleben's chemisch-technische bibliothek.)r666.I H47

Describes colors used, methods of preparing them, use in painting glass and porcelain, manufacture of enamels, methods of firing painted glass, etc. Does not discuss questions from artistic point of view.

HOVESTADT, H.

Jenaer glas und seine verwendung in wissenschaft und technik. 1900.....r666.I H84

Jena glass is distinguished by its superior physical and optical properties, which render it especially valuable for scientific purposes. Its manufacture resulted from a long and difficult scientific investigation into the connection between the optical properties of various glass mixtures and their chemical composition.

The book contains a large amount of information as to the properties of the various kinds of glass made at Jena, and of the optical instruments manufactured from them.

JARVES, Deming.

Reminiscences of glass-making. 1865.....666.I J19

The same. 1865r666.I J19

Notes on early glass industries in America. Author was engaged in glass-making in Massachusetts in the first half of the 19th century.

MILLER, J. B.

Die glasätzeri für tafel- und hohlglas, hell- und matt-ätzeri in ihrem ganzen umfange. 1896. (Hartleben's chemisch-technische bibliothek.).....r666.I M69

Brief manual of practical instruction.

Die verzierung der gläser durch den sandstrahl. 1882. (Hartleben's chemisch-technische bibliothek.).....r666.I M69v

Brief manual of methods applicable to tableware, mirrors, etc.

NATIONAL glass budget; weekly review of the American glass industry, May 21, 1898-date. v.14-date. 1898-dateqr666.I N15

NESBITT, Alexander.

Glass. [1878.] (South Kensington museum art hand-books.)666.I N23

The same. 1879. (South Kensington museum art hand-books.)r666.I N23g

Condensed from the introduction to the "Descriptive catalogue of the glass vessels in the South Kensington museum."

Carefully arranged and interesting essay on artistic glass-work from the earliest times to the middle of the 18th century.

Notes on the history of glass-making; prepared as an introduction to the catalogue of the collection of glass of various periods, formed by Felix Slade and bequeathed

- by him to the British museum. 1869.....qr666.I N23
 "Object...has not been to furnish an industrial history...but merely to offer an outline from an historical and antiquarian point of view."
Introduction.
- PELIGOT, Eugène.
 Le verre; son histoire, sa fabrication. 1877.....666.I P37
 Thorough description of glass manufacture and working in France at time of writing. Gives considerable space to history.
- PELLATT, Apsley.
 Curiosities of glass making, with details of the processes and productions of ancient and modern ornamental glass manufacture. 1849.....666.I P37
 Brief popular description of methods of making, working and ornamenting glass.
- PORTER, George Richardson.
 Treatise on the progressive improvement and present state of the manufacture of porcelain and glass. 1832.
 (Cabinet cyclopædia, v.26.).....r666.I P83
 Good description of the technical condition of these industries in England in the early part of the 19th century.
- POWELL, Harry J.
 Principles of glass-making, together with treatises on crown and sheet glass by Henry Chance, and plate glass by H. G. Harris. 1883. (Technological handbooks.)666.I P87
 Bibliography, p.179-180.
- SAUZAY, Alexandre.
 Wonders of glass-making in all ages. 1893. (Wonders of art and archæology.).....666.I S26
The same. 1875r666.I S26
 Popular historical and descriptive account of the manufacture of various common articles.
- SHENSTONE, William Ashwell.
 Methods of glass blowing. 1894.....666.I S54
- TSCHEUSCHNER, E.
 Handbuch der glasfabrikation nach allen ihren haupt- und nebenzweigen; mit einem atlas. 2v. 1885.....q666.I T78
 Thorough discussion of all branches of the industry. Atlas gives drawings of machinery, furnaces, etc.
- WEEKS, Joseph Dame.
 Report on the manufacture of glass. 1883.....qr666.I W42
 Part of v.2 of the "Final report on the 10th census."
- WETZEL, Carl.
 Die bearbeitung von glaskörpern bis zu den neuesten fortschritten. 1901. (Hartleben's chemisch-technische bibliothek.)r666.I W58
 Describes modern machines, tools and processes for cutting, boring, polishing, etching, etc.
 Die herstellung grosser glaskörper bis zu den neuesten fortschritten. 1900. (Hartleben's chemisch-technische bibliothek.)666.I W58
 Methods of blowing, drawing, casting, pressing and rolling glass.

666.2 Enamel

- BROWN, William Norman.
 Art of enamelling on metal. 1900.....666.2 B79

- Explains simply and clearly the varieties of art enamel, the processes used in their production, and the apparatus, colors and tools required.
 Handbook on japanning and enamelling for cycles, bedsteads, tinware, etc. 1901.....666.2 B79h
 Methods adapted for use in repair-shops and for work on a small scale.
CUNYNGHAME, Henry Hardinge Samuel.
 On the theory and practice of art-enamelling upon metals.
 1899666.2 C92
 For workmen and amateurs. Describes preparation and use of enamels and discusses the craft from the artistic point of view.
FURNIVAL, William Jones.
 Researches on leadless glazes. 1898.....r666.2 F99
 Contains a number of formulæ invented by the author and other investigators, with a detailed description of the results of tests of each.
RANDAU, Paul.
 Enamels and enamelling; tr. fr. the German by Charles Salter. 1900.....666.2 R18
 Treats very thoroughly of the technical industry. Devotes but little space to art work.
 Die fabrikation der emaille und das emailiren. 1900.
 (Hartleben's chemisch-technische bibliothek.).....r666.2 R18
SCHMIDT, Christian Heinrich.
 Die fabrikation der für die glasmalerei, emailmalerei und porcellanmalerei geeigneten farben; bearbeitet von Max Müller. 1880.....666.2 S35
 Theory and practice of their manufacture and use.

666.3-666.6 Ceramics

AMERICAN CERAMIC SOCIETY.

- Transactions, containing the papers and discussions of the annual meeting (1st-date), 1899-date. 1900-date.....r666.3 A51
BINNS, Charles Fergus, ed.
 Ceramic technology; some aspects of technical science as applied to pottery manufacture. 1897666.3 B46
Contents: The chemistry of pottery.—Analysis and synthesis.—Potters' clays and their components.—The biscuit oven.—Pyrometry.—Glazes and their composition.—Colours and colour making.
 Brief elementary manual.
LANGENBECK, Karl.
 Chemistry of pottery. 1895.....666.3 L24
SCHAMBERGER, J. W.
 Die keramische praxis; populäre anleitung zur erzeugung keramischer producte aller art, unter berücksichtigung der einschlägigen maschinen und sonstiger hilfssaparate zur bereitung von massen und glasuren, nebst den erforderlichen brennöfen. 1901. (Hartleben's chemisch-technische bibliothek.).....r666.3 S29
 Brief manual, founded on the author's experience. Written in clear, simple language.
SEGER, Hermann August.

- Collected writings; prepared from the records of the Royal porcelain factory at Berlin, by H. Hecht and E. Cramer, tr. by the members of the American ceramic society, ed. by Albert Bleininger. 2v. 1902.....qr666.3 S45
 v.1. Treatises of a general scientific nature.—Essays relating to brick and terra cotta.—Essays referring to earthenware and stoneware.—

Articles treating of refractory wares.

v.2. Articles treating of refractory wares (continued).—Reports of travel and letters (polemics).—Uncompleted work and communications from the records of the Royal porcelain manufactory.

Life of the author, by H. Hecht, v.1, p.11–21.

Seeger was for many years the head of the Chemical-technical experiment station at the Royal porcelain factory. The writings give the results of his numerous investigations into the technology of the ceramic industries, and are valuable to all workers in this field.

SWOBODA, Carl B.

Grundriss der thonwaren-industrie oder keramik. 1895.

(Hartleben's chemisch-technische bibliothek.).....r666.3 S97

"Führer durch die keramische literatur," p.189–193.

WIPPLINGER, Ludwig.

Die keramik; oder, Die fabrikation von töpfer-geschirr, steingut, fayence, steinzeug, terralith, sowie von fran-zösischem, englischem und hart-porzellan. 1897. (Hartleben's chemisch-technische bibliothek.).....r666.3 W79
Treats subject practically; describes machinery and processes; gives receipts for mixtures, etc.

GRIMM, Hans.

Die fabrikation des feldspat-porzellans. 1901. (Hartleben's chemisch-technische bibliothek.)r666.5 G91

Treats of materials, and their preparation, modeling of wares, burning, decorating, etc. Contains numerous illustrations of machinery and furnaces.

SANDEMAN, Ernest Albert.

Notes on the manufacture of earthenware. 1901.....666.6 S21

Elementary treatise, paying particular attention to practical matters. Intended as an introduction to the study of larger works.

STEINBRECHT, Gustav.

Die steingut-fabrikation. 1891. (Hartleben's chemisch-technische bibliothek.).....r666.6 S81

Brief popular manual on the manufacture of faience, for students and workmen.

666.7 Bricks. Tiles

BRICKMAKER; [semimonthly]. v.9–16, in 4. 1891–93...qr666.7 B74
v.11, Mar. 15–June 1, 1892, wanting.

CLAY record; [semimonthly]. v.1–date. 1892–date.....qr666.7 C54

DAVIS, Charles Thomas.

Practical treatise on the manufacture of brick, tiles and terra-cotta. 1895.....666.7 D31
American practice. Clay, fire, pressed and glazed brick, sewer pipe, drain-tile, ornamental tile, roofing-tile and architectural terra-cotta are included.

HARRIS, George F.

Science of brickmaking. 1897. (The "British clay-worker" manuals.).....666.7 H29

LEFÈVRE, Léon.

Architectural pottery; tr. fr. the French by K. H. Bird and W. M. Binns. 1900.....qb666.7 L53

Contents: Clays.—Preparation of the clay.—Bricks.—Tiles.—Pipes.—Quarries.—Terra-cottas.—General remarks on the decoration of pottery.—Glazed and enamelled bricks and tiles.—Decorated quarries.—Architectural decorated pottery.—Sanitary pottery.

Bibliography, p.485–486.

"Thorough, well-arranged and intelligent account of all the materials, processes and appliances used in the manufacture." *American architect*, 1901.

ZWICK, Hermann.

- Die natur der ziegelthone und die ziegel-fabrikation der gegenwart. 1894. (Hartleben's chemisch-technische bibliothek.)r666.7 Z94
Treats especially of the chemical and physical properties of the clays and of the theoretical side of brick-making.

666.8 Artificial stone

GILLMORE, Quincy Adams.

- Practical treatise on Coignet-béton and other artificial stone. 1871.r666.8 G41
Contents: Coignet-béton.—Ransome's silicious concrete stone.—The Frear artificial stone.—The American building block (Foster's and Van Derburgh's patents).—The Sorel artificial stone (Union stone company, Boston, Mass.).—Portland stone.
Report on Coignet-béton is no.19 of the "Professional papers," Corps of engineers, United States army.
Describes methods of manufacture, gives results of tests of strength and estimates of cost.

666.9 Cements. Mortars

BROWN, Charles Carroll, *ed.*

- Directory of American cement industries and hand-book for cement users. 1902r666.9 B78d
Contents: Introduction.—Testing of cement.—Specifications for cement.—The uses of cement.—Specifications for the use of cement.—Data for estimates of cement work.—Cement laboratories.—Lime and plaster.—Freight rates on cement.—Descriptions of works and of processes for the manufacture of cement.—Directory of American cement industries.—Directory of cement manufacturers.—Directory of cement brands.—Directory of general sales agents.—Foreign cement trade.—Dealers in cement.—Contractors and large users of cement.—Engineers, architects and other supervisors of the use of cement.—Workers in cement.—Cement tests and analyses; List of laboratories making analyses and tests of cement and cement materials; Engineers who design cement plants.—Machinery and supplies for cement plants, machinery and tools for cement users.—Dealers in lime and plaster.—Manufacturers of lime.—Manufacturers of plaster.

BUTLER, David Butler.

- Portland cement; its manufacture, testing and use. 1899. .666.9 B97

CANDLOT, E.

- Ciments et chaux hydrauliques; fabrication, propriétés, emploi. 1898.r666.9 C17
"Index bibliographique," p.449-450.
One of the best general treatises (1902).

ENGINEERING RECORD.

- Cement industry; descriptions of Portland and natural cement plants in the United States and Europe, with notes on materials and processes in Portland cement manufacture. 1900.666.9 E64
Selected reprint of articles from the "Engineering record."

FEICHTINGER, G.

- Die chemische technologie der mörtelmaterialien. 1885.
(Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r666.9 M53
Manufacture, properties, testing and uses of lime, gypsum, mortars, cements and artificial stone.
Bound with Mayer's "Chemische technologie des holzes als baumaterial."

JAMESON, Charles Davis.

Portland cement; its manufacture and use. 1898.....r666.9 J16

LESLEY, Robert W.

History of the Portland cement industry in the United States. 1900.....r666.9 L64

REDGRAVE, Gilbert Richard.

Calcareous cements; their nature and uses. 1895.....r666.9 R27

Concise accounts of the processes of manufacturing the various cements, including descriptions of the machinery used, methods of analysing and testing, mortar and concrete and their properties, and a short historical account of the cement industry.

ZWICK, Hermann.

Hydraulischer kalk und Portland-cement, nach rohmaterialien, physikalischen und chemischen eigenschaften, untersuchung, fabrikation und werthstellung; unter besonderer rücksicht auf den gegenwärtigen stand der cement-industrie. 1892. (Hartleben's chemisch-technische bibliothek.).....r666.9 Z94

Kalk und luftmörtel; auftreten und natur des kalksteines, das brennen desselben und seine anwendung zu luftmörtel. 1879. (Hartleben's chemisch-technische bibliothek.)r666.9 Z94k
Thorough practical discussion of methods, machinery, etc.

667 Bleaching. Dyeing. Cleaning

SOXHLET, V. H.

Die kunst des färbens und beizens von marmor, künstlichen steinen, von knochen, horn und elfenbein und das färben und imitiren von allen holzsorten. 1899. (Hartleben's chemisch-technische bibliothek.).....r667 S73
Practical manual of receipts and instructions.

JOCLÉT, Victor.

Die kunst- und feinwäscherei in ihrem ganzen umfange. 1895. (Hartleben's chemisch-technische bibliothek.)...r667.1 J33k
Vollständiges handbuch der bleichkunst; oder, Theoretische und praktische anleitung zum bleichen von baumwolle, flachs, hanf, wolle, seide, jute, chinagras und tussarseide. 1895. (Hartleben's chemisch-technische bibliothek.)r667.1 J33
Includes also methods for bleaching feathers, bristles, bones, ivory, wax, marble, paper, straw, shellac, etc.

BERGHOF, Albert.

Die organischen farbstoffe thierischen und pflanzlichen ursprunges und deren anwendung in der färberei und zeugdruckerei. 1902. (Hartleben's chemisch-technische bibliothek.)r667.2 B45
Methods of making and using, with description of their properties and effects.

BRAUNER, Alfred.

Die färberei à ressort, das färben der schmuckfedern und die bearbeitung der haare. 1887. (Hartleben's chemisch-technische bibliothek.).....r667.2 B71

BRAUNSDORF, W.

Das trocken, bleichen, färben, bronziren und vergolden natürlicher blumen und gräser, sowie sonstiger pflanzen-theile, und ihre verwendung zu bouquets, kränzen und decorationen. 1888. (Hartleben's chemisch-technische bibliothek.).....r667.2 B716

FÄRBER-ZEITUNG; zeitschrift für färberei, zeugdruck und den gesammten farbenverbrauch; [semimonthly]. v.1-date. 1890-date.....qr667.2 F22

HUMMEL, John James.

Dyeing of textile fabrics. 1898. (Manuals of technology.)...667.2 H92
Theoretical and practical. Describes the various fibers, their preparation for dyeing, the various classes of dyes and the methods and machinery employed in their application.

JOURNAL of the Society of dyers and colourists, and all interested in the use or manufacture of colours, and in calico printing, bleaching, etc.; monthly. v.1-date. 1885-dateqr667.2 J46

KNECHT, Edmund, and others.

Manual of dyeing; for the use of practical dyers, manufacturers, students, and all interested in the art of dyeing. 3v. 1893.....r667.2 K33
v.1-2. Text. v.3. Specimens of dyed fabrics.

LAU, Louis.

Praktischer unterricht in der heutigen putzfedernfärberei, lap-penfärberei mit küpführung und chemischer und nass-wäscherei. 1890. (Hartleben's chemisch-technische biblio-thek.) r667.2 L36
Brief manual on dyeing feathers and garments, and methods of cleaning, with receipts for preparing dyes.

PATERSON, David.

Science of colour mixing; a manual intended for the use of dyers, calico printers and colour chemists. 1900....667.2 P29
Treatise on the theory, for practical workers.

JOCLÉT, Victor.

Die chemische bearbeitung der schafwolle; oder, Das ganze der färberei von wolle und wollenen gespinnsten. 1877. (Hartleben's chemisch-technische bibliothek.)...r667.2 J33
Describes the colors used and the special methods employed for various classes of work.

LAU, Louis, & Hampe, Alwin.

Praktischer unterricht in der heutigen wollenfärberei, enthal-tend wäscherei und carbonisirung, alizarin-, holz-, säure-, anilin- und waidküpf-färberei für lose wolle, garne und stücke. 1892. (Hartleben's chemisch-technische biblio-thek.)r667.22 L36
Collection of receipts for various colors, with directions for their use.

HURST, George H.

Silk dyeing, printing and finishing. 1892. (Technological handbooks.).....667.23 H95
Contains an appendix of receipts and patterns.
Describes the physical and chemical properties of the silks in use, including the "wild silks," the theory and methods of dyeing silk and mixed silk fabrics, the printing of silk, the machinery used in dyeing and finishing, and the methods of testing and assaying raw and dyed silks.

667.26 Artificial dyes

BERSCH, Josef.

Die fabrikation der anilinfarbstoffe und aller anderen aus dem theere darstellbaren farbstoffe, (phenyl-, naphthalin-, anthracen- und resorcinfarbstoffe), und deren anwendung in der industrie. 1878. (Hartleben's chemisch-technische bibliothek.).....r667.26 B46
Statement in simple form of the chemistry, manufacture and uses of the coal-tar colors.

BOLLEY, Pompejus Alexander, and others.

Die theerfarbstoffe. 3v. 1867-97. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r667.26 B61
Valuable historically, owing to the long period covered in its preparation.

BRUNCK, H.

History of the development of the manufacture of indigo. 1900r667.26 B83
By the managing director of the Badische anilin- und sodafabrik, manufacturers of synthetic indigo.

FRIEDLAENDER, P.

Fortschritte der theerfarbenfabrikation und verwandter industriezweige, an der hand der systematisch geordneten und mit kritischen anmerkungen versehenen deutschen reichs-patente, 1877-1894. 3v. in 4. 1888-96qr667.26 F95
Classified collection of the patents, with critical notes and explanations. Numbers of corresponding English and United States patents are given for such processes as were protected in those countries.

HÖDL, E. J.

Die praktische anwendung der theerfarben in der industrie. 1885. (Hartleben's chemisch-technische bibliothek.)r667.26 H66

HURST, George H. comp.

Dictionary of the coal tar colors. 1896.....qr667.26 H95

JAUBERT, George F.

L'industrie des matières colorantes azoïques. [1899.] (Encyclopédie scientifique des aide-mémoire.)r667.26 J21

NIETZKI, Rudolf.

Chemistry of the organic dyestuffs; tr. fr. the German by A. Collin and W. Richardson. 1892.....667.26 N33

SCHULTZ, Gustav, & Julius, Paul.

Systematic survey of the organic colouring matters; tr. with additions by A. G. Green. 1894.....qr667.26 S38
Gives in tabular form the commercial and scientific names, formulae, method of preparation, year of discovery, patents, literature, behavior with reagents, dyeing properties, method of use, etc., for over 400 coloring matters.

The same. 1904.....qr667.26 S38s

667.27 Natural dyes

MIERZINSKI, Stanislaus.

Die gerb- und farbstoff-extracte. 1887. (Hartleben's chemisch-technische bibliothek.).....r667.27 M67
Treats of their constitution, properties and methods of manufacture.

RUPE, Hans.

- Die chemie der natürlichen farbstoffe. 1900. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r667.27 R87
Summary of knowledge of the chemical composition, properties and reactions of the natural dyestuffs.

667.29 Mordants

WOLFF, H.

- Die beizen; ihre darstellung, prüfung und anwendung. 1885. (Hartleben's chemisch-technische bibliothek.)...r667.29 W83
Brief theoretical and practical discussion of their properties and uses.

667.3 Cotton-dyeing. Calico-printing

GROSSE, Eduard.

- Der gold- und farbendruck auf calico, leder, leinwand, papier, sammet, seide und andere stoffe. 1889. (Hartleben's chemisch-technische bibliothek.).....r667.3 G93
Largely devoted to methods used in book ornamentation. Gives practical methods and discusses theory of design, etc.

HERZINGER, Eduard.

- Die walkecht-färberei der ungesponnenen baumwolle. 1894. (Hartleben's chemisch-technische bibliothek.).....r667.3 H48
Collection of receipts for various colors.

ROMEN, Carl.

- Die colorie der baumwolle auf garne und gewebe, mit besonderer berücksichtigung der türkischroth-färberei. 1878. (Hartleben's chemisch-technische bibliothek.)...r667.3 R66
Describes properties of the various dyes and the practical methods of using them.

ROTHWELL, Charles Frederick Seymour.

- Printing of textile fabrics; a manual on the printing of cotton, woolen, silk and half-silk fabrics. 1897.....667.3 R76
Confined to practical description of machinery and processes, omitting theory.

SOXHLET, V. H.

- Die praxis der anilin-färberei und -druckerei auf baumwoll-waaren. 1890. (Hartleben's chemisch-technische bibliothek.)r667.3 S73
Confined to discussion of the use of aniline colors. Omits theory.

WHARTON, B. F. & Soxhlet, V. H.

- Die kattun-druckerei. 1892. (Hartleben's chemisch-technische bibliothek.).....r667.3 W59
Brief practical manual covering the preparation of the material, colors used, methods, etc.

667.4-667.5 Inks

LEHNER, Sigmund.

- Manufacture of ink; tr. fr. the German, with additions by W. T. Brannt. 1892r667.4 L55m
Contents: Introduction.—The various kinds of ink.—Writing inks.—The raw materials used in the preparation of inks containing tannin.—Chemical constitution of inks containing tannin.—Directions for the preparation of inks containing tannin.—Logwood and tannin inks.—Ferric oxide inks.—Alizarin inks.—Inks from extractive matter.—

Logwood inks.—Copying ink.—The hektograph and hektograph inks.—Safety inks.—Ink extracts and ink powders.—Preserving agents for ink.—Change in the color of ink in old documents and methods of making faded writing legible.—Colored inks.—Metallic inks.—Solid inks (India or Chinese ink).—Lithographic inks and crayons.—Printing ink.—Ink pencils or aniline pencils.—Marking inks.—Ink specialties.—Sympathetic inks.—Stamp and stencil inks.—Wash-blue or laundry-blue.

Die tinten-fabrikation und die herstellung der hektographen und hektographirtinten; die fabrikation der tusche, der tintenstifte, der stempeldruckfarben, sowie des waschblaus. 1899. (Hartleben's chemisch-technische bibliothek.).....r667.4 L55
Receipts and directions for the manufacture of a large variety of inks.

ANDÉS, Louis Edgar.

Oel- und buchdruckfarben; praktisches handbuch für firniss- und farbenfabrikanten. 1889. (Hartleben's chemisch-technische bibliothek.).....r667.5 A55
Treats chiefly of the manufacture and assaying of linseed-oil varnishes, colors and printers' inks, describing in detail the processes, materials used, etc.

667.6 Paints. Pigments

ANDÉS, Louis Edgar.

Der eisenrost; seine bildung, gefahren und verhütung unter besonderer berücksichtigung der verwendung des eisens als bau- und constructionsmaterial. 1898. (Hartleben's chemisch-technische bibliothek.).....r667.6 A55
Treats of various anti-fouling and anti-corrosive paints, their preparation, testing and applicability as preservatives of iron and steel structures.

Iron corrosion, anti-fouling and anti-corrosive paints.

1900r667.6 A55
Discusses at length the different varnishes and paints, their preparation, testing and applicability.

BERSCH, Josef.

Die fabrikation der erdfarben. 1893. (Hartleben's chemisch-technische bibliothek.).....r667.6 B46
Die fabrikation der mineral- und lackfarben. 1893. (Hartleben's chemisch-technische bibliothek.).....r667.6 B46f
Practical directions for their manufacture, methods of analysis and testing, etc.

Manufacture of mineral and lake pigments; a text-book for manufacturers, merchants, artists and painters; tr. by A. C. Wright. 1901.....r667.6 B46m
Practical directions for their manufacture, methods of analysis and testing, etc.

FRIEDBERG, Wilhelm.

Die fabrikation der knochenkohle und des thieröles. 1877. (Hartleben's chemisch-technische bibliothek.)...r667.6 F94
Brief manual of their manufacture and properties, and of methods of testing.

FÜRSTENAU, Carl.

Das ultramarin und seine bereitung. 1880. (Hartleben's chemisch-technische bibliothek.).....r667.6 F99
Brief practical manual on its manufacture, use, testing, etc.

HURST, George H. comp.

Dictionary of chemicals and raw products used in the

- manufacture of paints, colours, varnishes and allied preparations. 1901.....r667.6 H95
- Brief statements of chemical and physical properties, methods of manufacture, tests for purity, uses, etc.
- Painters' colours, oils and varnishes; a practical manual.
1892667.6 H95
- JENNISON, Francis H.
Manufacture of lake pigments from artificial colours.
1900667.6 J26
- Useful theoretical and practical treatise. Pays particular attention to the chemistry of the subject.
- LOWE, Houston.
Hints on painting structural steel, and notes on prominent paint materials. 1900.....667.6 L95
- Monograph on the various causes of failure of the oils and pigments used for painting steel, and on the right and wrong ways of using them. Written in very plain, untechnical language.
- MIERZINSKI, Stanislaus.
Handbuch der farben-fabrikation; praxis und theorie. 2v.
1898. (Hartleben's chemisch-technische bibliothek.) .r667.6 M67
- RENTZSCH, Otto.
Das gesamtgebiet der vergolderei nach den neuesten fortschritten und verbesserungen. 1890. (Hartleben's chemisch-technische bibliothek.).....r667.6 R34
- SMITH, J. Cruickshank.
Manufacture of paint; a practical handbook for paint manufacturers, merchants and painters. 1901.....667.6 S65
- Describes methods of grinding the various pigments, machinery used, etc.

667.7 Varnishes. Polishes. Lacquers

- ANDÉS, Louis Edgar.
Die fabrikation der copal-, terpeninöl- und spiritus-lacke.
1895. (Hartleben's chemisch-technische bibliothek.) .r667.7 A55
- Die fabrikation der siegel- und flaschenlacke; mit einem anhang, Die fabrikation des brauer-, wachs-, schu-macher- und bürstenpeches. 1885. (Hartleben's che-misch-technische bibliothek.).....r667.7 A55f
- Practical manual describing raw materials and methods of manufacture, and giving numerous formulæ.
- Die fabrikation der stiefelwichse und der leder-conser-vierungsmittel. 1893. (Hartleben's chemisch-technische bibliothek.)r667.7 A55s
- Methods of testing raw materials, and receipts for preparation of various blackings, polishes, greases, etc.
- ANDRES, Erwin.
Die fabrikation der lacke, firnisse, buchdrucker-firnisse und des siegellackes. 1891. (Hartleben's chemisch-technische bibliothek.).....r667.7 A56
- Describes raw materials and their properties, methods of manufacture, machinery used, etc.
- BRANNT, William Theodore.
Varnishes, lacquers, printing inks and sealing-waxes; their raw materials and their manufacture. 1893.....667.7 B71
- Handbook of methods and receipts.

BROWN, William Norman.

- Principles and practice of dipping, burnishing, lacquering
and orozning brass ware. 1900.....667.7 B79
Elementary manual for beginners.

LIVACHE, Achille.

- Manufacture of varnishes, oil crushing, refining and boiling,
and kindred industries; tr. and extended and adapted
to English practice, with original recipes by J. G. McIntosh.
1899.....667.7 L74
Describes the sources and character of the raw materials, methods
of manufacture and testing, etc. Chief value is in section on raw
materials, as the practical methods are not recent (1903), and the
chemical statements are often erroneous.

STANDAGE, H. C. *comp.*

- Practical polish and varnish maker; containing 750 practical
receipts and formulae. 1892.....667.7 S78

WAHLBURG, Victor.

- Die schleif-, polir- und putzmittel für metalle aller art,
glas, holz, edelsteine, horn, schildpatt, perlmutter,
steine, u. s. w. 1898. (Hartleben's chemisch-technische
bibliothek.)r667.7 W13

668.1 Soap

BRANNT, William Theodore, *ed.*

- Practical treatise on the manufacture of soap and candles.
1888668.1 B71
Chiefly a compilation from standard German works. Contains a list of
United States patents relating to these manufactures, issued from 1790
to 1888.

CAMERON, James, *ed.*

- Soaps and candles. 1896.....668.1 C15
Bibliography, p.11.
Brief manual, for students, describing their manufacture. Contains a
chapter on soap analysis.

DEITE, Carl.

- Die darstellung der seifen, parfümerien und cosmetica.
1867. (Handbuch der chemischen technologie; hrsg.
von P. A. Bolley und anderen.).....r668.1 D38
Bibliography, p.154-156.
Chiefly composed of receipts and instructions for use.

ENGELHARDT, Alwin.

- Handbuch der praktischen seifen-fabrikation. 2v. 1896.
(Hartleben's chemisch-technische bibliothek.).....r668.1 E63h
Handbuch der praktischen toiletteseifen-fabrikation; praktische
anleitung zur darstellung aller sorten von deutschen,
englischen und französischen toiletteseifen,
sowie der medicinischen seifen, glycerinseifen und der
seifenspecialitäten. 1888. (Hartleben's chemisch-technische
bibliothek.).....r668.1 E63
Gives special attention to the mechanical equipment of factories.

GADD, W. Lawrence.

- Soap manufacture; a treatise on the fabrication of hard
and soft soaps, and analytical methods for the determination
of their chemical composition. 1893. (Tech-

nological handbooks.).....668.1 G12
 Brief treatise on theory and practice, intended primarily for students.

GATHMANN, Henry.

American soaps; a complete treatise on the manufacture of soap, with special reference to American conditions and practice. 1893.....q668.1 G23
 Processes, machinery, etc. are described in a clear, practical manner.

HURST, George H.

Soaps; a practical manual of the manufacture of domestic, toilet and other soaps. 1898.....668.1 H95
 "Author...has aimed at presenting...the principal processes...with an account of the raw materials used and the scientific principles which underlie the various operations." *Preface.*

WILTNER, Friedrich.

Die fabrikation der toilette-seifen. 1884. (Hartleben's chemisch-technische bibliothek.).....r668.1 W77f
 Describes machinery and processes, and gives many receipts.

Die seifen-fabrikation. 1900. (Hartleben's chemisch-technische bibliothek.).....r668.1 W77
 Brief practical treatise, describing machinery and methods. Includes chapters on medicinal and toilet soaps, specialties and soap analysis.

668.2 Glycerin. 668.3 Glue

KOPPE, Siegfried Walter.

Das glycerin; seine darstellung, seine verbindungen und anwendung in den gewerben, in der seifenfabrikation, parfumerie und der sprengtechnik. 1883. (Hartleben's chemisch-technische bibliothek.).....r668.2 K38
 Manufacture, analysis and properties of glycerin, manufacture of nitro-glycerin and dynamite, and use of glycerin in various manufactures are briefly treated. Chapters are given on the determination of glycerin and nitro-glycerin.

RIDEAL, Samuel.

Glue and glue testing. 1900.....668.3 R43
 Practical treatise on the manufacture and uses of glue and gelatin, and the methods of testing them.

STANDAGE, H. C. *comp.*

Cements, pastes, glues and gums. 1893.....b668.3 S78
 Receipts for their manufacture and methods of application.

668.4 Gums. Resins

ANDÉS, Louis Edgar.

Gummi arabicum und dessen surrogate in festem und flüssigem zustande. 1896. (Hartleben's chemisch-technische bibliothek.).....r668.4 A55
 Practical manual of the manufacture of gums, mucilages, pastes, etc.

DAWIDOWSKY, F.

Die leim- und gelatine-fabrikation. 1893. (Hartleben's chemisch-technische bibliothek.).....r668.4 D32
 Describes machinery and processes used in their manufacture, methods of testing glue, uses, varieties, etc.

LEHNER, Sigmund.

Die kitte und klebemittel. 1892. (Hartleben's chemisch-

- technische bibliothek.).....r668.4 L55
 Contains methods of making and using a large number of selected
 cements and pastes adapted to all the requirements of various trades.
- THENIUS, Georg.
 Die harze und ihre producte; deren abstammung, gewin-
 nung und technische verwerthung; nebst einem anhang,
 Ueber die producte der trockenen destillation des harzes.
 1895. (Hartleben's chemisch-technische bibliothek.)...r668.4 T34

668.5 Essences. Perfumes

- ASKINSON, George William.
 Die fabrikation der ätherischen oele. 1887. (Hartleben's
 chemisch-technische bibliothek.).....r668.5 A83
 Perfumes and their preparation, with a description of aro-
 matic substances. 1892.....668.5 A83
 Directions for making a number of popular perfumes, information con-
 cerning the origin and properties of the raw materials, and methods
 for determining their genuineness and purity.
- GILDEMEISTER, Eduard, & Hoffmann, Friedrich.
 Volatile oils; tr. by Edward Kremers. 1900.....r668.5 G38
 "Bibliographic notes," p.693-707.
 Written under the auspices of Schimmel & co. of Leipzig, the foremost
 manufacturers of these oils, and embodies the results of their years
 of work. Most exhaustive and critical treatise yet published (1901).
- HORATIUS, Theodor.
 Die fabrikation der aether und grundessenzen; nebst einem
 anhang, Ueber die zusammensetzung von liqueuren,
 brantweinen, rum, arrac, cognac und verschiedenen
 weinen. 1895. (Hartleben's chemisch-technische bib-
 liothek.)r668.5 H79
 Receipts for artificial fruit essences, extracts and syrups, liqueurs, rum
 and absinthe, with practical directions for their manufacture.
- IDRIS, T. H. W.
 Notes on essential oils, with special reference to their use,
 composition, chemistry and analysis. 1900.....668.5 I14
 Brief statement of chemical and physical properties, occurrence, etc., for
 use in the laboratory.
- JAUBERT, George F.
 Les parfums comestibles. [1900.] (Encyclopédie scien-
 tifique des aide-mémoire.).....r668.5 J21
 Short descriptions of properties and manufacture of the more important.
 Special attention is given to artificial extracts.
- KOLLER, Theodor.
 Die technik der kosmetik; handbuch der fabrikation, ver-
 werthung und prüfung aller kosmetischen stoffe und
 der kosmetischen specialitäten. 1901. (Hartleben's
 chemisch-technische bibliothek.).....r668.5 K36t
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KÖHLER, Hippolyt.

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AUSTEN, Sir William Chandler Roberts-

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v.3. Steel, fuel; supplement.

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v.2. Zinc.—Cadmium.—Mercury.—Bismuth.—Tin.—Antimony.—Arsenic.—Nickel.—Cobalt.—Platinum.—Aluminium.

STÖLZEL, Carl, & Ledebur, A.

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 v.2. Metallverarbeitung, by A. Ledebur.
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 Thorough manual, paying especial attention to the mechanical side. v.2 treats of alloys and metallic preparations, and the rolling, drawing, forging, electroplating, etc. of metals.

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- Iron trade of the United Kingdom compared with that of the other chief iron-making nations. 1886.....r669.1 B41i
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- CAMPBELL, Harry Huse.**
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- Critical study of the subject. Describes the manufacture of the several varieties of open-hearth and Bessemer steel, their physical properties, and the effect on these of various other elements.
- CARNEGIE STEEL CO. Pittsburgh.**
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- DUNLAP, Thomas, ed.**
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- DÜSSELDORF, VEREIN DEUTSCHER EISENHÜTTEN-LEUTE.**
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- FAIRBAIRN, Sir William.**
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- Essays concerning iron and steel; the first containing observations on American sand-iron, the second, observations founded on experiments on common iron-

ore, and an appendix discovering a more perfect method of charring pit-coal. 1773.....r669.I H79
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Album to the course of lectures on metallurgy at the Central school of arts and manufactures of Paris. 2v.

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v.2. Plates.

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JÜPTNER von JONSTORFF, Hanns, freiherr.

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Grundzüge der siderologie; für hüttenleute, maschinenbauer u. s. w., sowie zur benutzung beim unterrichte bearbeitet. v.1-2. 1900-02.....r669.I J53

v.1. Die konstitution der eisenlegierungen und schlacken.

v.2. Zusammenhang zwischen thermischer und mechanischer bearbeitung, konstitution und eigenschaften der eisenlegierungen.

"Literatur," v.1, p.291-307; v.2, p.388-399.

Author defines siderology as the study which concerns itself with the intimate morphological and chemical composition of the iron alloys, and also inquires into the ways in which these alloys are changed by outer influences (mechanical and heat treatment, etc.), and what connection exists between their composition and their physical and mechanical properties.

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KOHN, Ferdinand.

Iron and steel manufacture, with reports on iron and steel in the Paris exhibition of 1867, and descriptions of the principal iron and steel works in Great Britain and the continent. 1869.....qr669.I K36

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LEDEBUR, A.

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OSBORN, Henry Stafford.

Metallurgy of iron and steel, with special reference to

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OVERMAN, Frederick.

Manufacture of iron, with an essay on the manufacture of steel. 1854.....r669.I O33

Includes "Fuel," p.80-138.

PEARSE, John Barnard.

Concise history of the iron manufacture of the American colonies to the Revolution, and of Pennsylvania until the present time. 1876.....r669.I P34

Particularly valuable for its notes on the Pennsylvania iron industries.

PERCY, John.

Metallurgy; iron and steel. 1864.....r669.I P42

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On the comparative endurance of iron and mild steel when exposed to corrosive influences, with an abstract of the discussion upon the paper; ed. by James Forrest.

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Results of tests showing comparative effect of various waters and salt solutions.

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SKELTON, H. J.

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"Presents a clear view of the leading principles and practice of the British heavy iron and steel trades, conditions governing quotations for bar iron, extras payable for special lengths, etc." *W. S. Sonnenschein.*

TENNESSEE COAL, IRON AND RAILROAD CO.

Description of plants and mines. 1900.....r669.1 T29
VADOT, Napoléon.

Le Creusot; son histoire, son industrie. 1875.....r669.1 V12

Popular description of the most important of French iron-works.

VOSMAER, A.

Mechanical and other properties of iron and steel in connection with their chemical composition. 1891.....669.1 V38
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Grundriss der eisenhüttenkunde. 1901.....669.1 W41

Brief text-book of the metallurgy of iron, treating its metallurgical chemistry and physics, the ores and their preparation, blast-furnace practice, puddling, Bessemer and open-hearth working, forging, rolling, etc.

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 METALLOGRAPHIST; a quarterly publication devoted to the study of metals, with special reference to their physics and microstructure, their industrial treatment and applications; ed. by Albert Sauveur. v.1-date. 1898-dater669.105 M64
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BECK, Ludwig.

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 v.2. Das 16. und 17. jahrhundert.
 v.3. Das 18. jahrhundert.
 v.4. Das 19. jahrhundert von 1801 bis 1860.
 v.5. Das 19. jahrhundert von 1860 an bis zum schluss.

FRENCH, Benjamin Franklin.

- History of the rise and progress of the iron trade of the United States, 1621-1857. 1858.....r669.109 F92
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SCRIVENOR, Harry.

- Comprehensive history of the iron trade throughout the world, with an appendix containing official tables and other public documents. 1841.....r669.109 S43
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SWANK, James Moore.

- History of the manufacture of iron in all ages and particularly in the United States to 1891, also a short history of early coal mining in the United States. 1892.....q669.109 S97
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 Introduction to the history of ironmaking and coal mining in Pennsylvania. 1878.....669.109 S97i
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669.12 Cast-iron. Blast-furnace

ALABAMA—Geological survey.

Iron making in Alabama, by W. B. Phillips. 1898.....669.12 A31

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BELL, Sir Isaac Lowthian.

Chemical phenomena of iron smelting; an examination of the circumstances which determine the capacity of the blast furnace. 1872.....r669.12 B41

Results of numerous investigations, by a noted practical ironmaster, of the various chemical phenomena occurring in the blast-furnace; and of the effect of various conditions of blast, furnace capacity, etc. upon the quality and quantity of iron produced and the economy of operation.

CHURCH, Seymour R. *pub.*

Analysis of pig iron. v.1-2. [1900-02.].....qr669.12 C46

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GRUNER, Louis Emmanuel.

Studies of blast furnace phenomena. 1874.....669.12 G94

JOHNSON, Walter Rogers.

Notes on the use of anthracite in the manufacture of iron, with some remarks on its evaporating power. 1841...r669.12 J36

Results of trials made at different Pennsylvania blast-furnaces, (1820-1841).

KEEP, William John.

Cast iron; a record of original research. 1902.....669.12 K15

Results of numerous investigations of the effect of various elements on the physical properties of cast-iron, with detailed descriptions of the author's apparatus and methods. Of particular interest to the foundryman.

NEEDHAM, M.

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TRURAN, William.

Iron manufacture of Great Britain. 1862.....qr669.12 T78

TURNER, Thomas.

Metallurgy of iron and steel. v.1. 1895.....669.12 T86

v.1. Metallurgy of iron.

The same. v.1. 1895.....r669.12 T86

Assumes a general knowledge of iron-making, and attempts, by extreme condensation and copious bibliographical references, to produce a work standing between an exhaustive treatise and an elementary text-book.

Volume 2 was never written. Its place is taken by Harbord's "Metallurgy of steel."

WEST, Thomas Dyson.

Metallurgy of cast iron; a complete exposition of the processes involved in its treatment, chemically and physically, from the blast furnace through the foundry to the testing machine. 1902.....669.12 W56

Devotes much more space to foundry practice than to that of the blast-furnace. Author is a practical foundryman. Written in a practical style, and is devoid of theory.

669.16 Steel

ANDREWS, Thomas, b. 1847.

Microscopic internal flaws inducing fracture in steel.

1896669.16 A57

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BARNES, Phinehas.

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vey. Bulletin, no.25.)669.16 B25

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Bulletin, v.4, no.25.)r557.3 U25b v.4

Good brief survey of conditions and practice at that time.

FITCH, Thomas W. *comp.*

Bessemer steel; ores and methods. 1882.....r669.16 F55

Outlines methods of manufacture, cost, etc. in various countries, de-

scribing important works.

GRUNER, Louis Emmanuel.

Manufacture of steel; with an appendix on the Bessemer

process in the United States. 1872.....669.16 G94

Good general survey of processes used in the middle of the 19th cen-

tury, by a well-known French metallurgist.

HALL, Joseph.

The iron question considered in connection with theory,

practice and experience, with special reference to the

Bessemer process. 1857.....r669.16 H17

HOWE, Henry Marion.

Metallurgy of steel. v.1. 1890.....qr669.16 H85

The same. v.1. 1895.....q669.16 H85

The same. v.1. 1890.....q669.16 H85m

Exhaustive critical discussion of steel-making.

JEANS, James Stephen.

Steel; its history, manufacture, properties and uses. 1880..669.16 J22

The same. 1880.....r669.16 J22

Describes thoroughly the development of the steel industry to 1880,

giving notes on many processes used and proposed.

LANDRIN, Henri C.

Treatise on steel; its theory, metallurgy, practical work-

ing and use; with an appendix on the Bessemer and

Martin processes for manufacturing steel, from the re-

port of A. S. Hewitt. 1868.....r669.16 L22

MÜLLER, Friedrich C. G.

Krupp's steel works. 1898.....qr669.16 M95

Popular description of these famous works, well illustrated and in-

terestingly written.

RÉAUMUR, René Antoine Ferchault de.

L'art de convertir le fer forgé en acier, et l'art d'adoucir le

fer fondu. 1722.....qr669.16 R25

ROTT, Carl.

Die Klein-Bessemererei für den stahlformguss, temperguss

und feinguss. 1900.....r669.16 R76

Sonder-abdruck aus "Uhland's technische rundschau, ausgabe für metall-

industrie, bergbau und hüttenwesen."

Treats of the construction and uses of Bessemer converters for charges

of about 1500 lbs. Gives plans, cost of installation and operation, etc.

UNITED STATES—Navigation bureau. (Navy department.)

- Papers and discussions on experiments with steel, reprinted from various sources. 1883. (Naval professional papers, no.14.).....r669.16 U25
Contents: Experiments on steel.—On the corrosive effects of steel on iron in salt water.—On the relative corrosion of iron and steel.—On the economical advantages of steel shipbuilding.—On cracks and annealing of steel.—On the quality of material used in shipbuilding.

WEDDING, Hermann.

- Basic Bessemer process; tr. fr. the German by W. B. Phillips and Ernst Prochaska. 1891.....r669.16 W41
 Contains a supplementary chapter on dephosphorization in the basic open-hearth furnace, by Ernst Prochaska.
 Full, reliable description by a famous German metallurgist. Well illustrated with drawings from actual practice.

WIBORGH, Johan Gustaf.

- Use of hot-blast in the Bessemer process. 1899.....669.8 H39
 Reprinted from the "Journal of the Iron and steel institute," May 1899.
 Bound with other pamphlets.

669.17 Working. Annealing. Tempering

EDE, George.

- Management of steel. 1891.....669.17 E26
The same. 1874.....r669.17 E26
 Deals in a practical manner with its manufacture, selection for tools, forging, annealing, hardening, tempering, etc.

METCALF, William.

- Steel; a manual for steel-users. 1896.....669.17 M64
 Treats of the properties of steel, effect of impurities, theory and methods of hardening, tempering, annealing, etc. Pays especial attention to crucible steel.

MILLER, METCALF & PARKIN.

- Treatment of steel; a series of circulars on heating, annealing, forging and tempering, issued by the Crescent steel works, and a chapter on hardening and tempering of steel, by Geo. Ede. 1884.....669.17 M69
 Practical directions for workmen.

REISER, Fridolin.

- Das härten des stahles in theorie und praxis. 1900.....r669.17 R32
 Concise, yet thorough, treatment, paying especial attention to the practical application of the theory of hardening.

STROMEYER, Johann Philip Edmund Charles.

- Injurious effect of a blue heat on steel and iron. 1887.
 (United States—Navigation bureau. (Navy department.)
 Naval professional papers, no.21.).....r669.17 S92
 Reprinted from the "Proceedings of the Institution of civil engineers, London."

669.18 Roll-turning

DAELEN, R. and others.

- Die kalibrirung der eisenwalzen; drei gekrönte preisschriften eingereicht dem Verein zur beförderung des gewerbfleisses in Preussen, von R. Daelen, A. Hollenberg und Diekmann. 1874.....qr669.18 D13
 Three monographs upon the theory and practice of roll-turning for various shapes, describing in detail the methods of calculating the form of the roll for specified sections.

SPENCER, Adam.

Roll-turning for sections in steel and iron, with appendix.

2v. 1894.....qr669.18 S74

Series of drawings to scale, giving examples of rolls for the different kinds of work which have proved satisfactory in use. All theoretical discussion is omitted.

TUNNER, Peter.

Treatise on roll-turning for the manufacture of iron, with

atlas. 2v. 1869.....qr669.18 T84

v.1. Text. v.2. Plates.

669.2 Gold and silver

ADAMS, William James.

Hints on amalgamation and the general care of gold mills.

1899669.2 A21

"Results of the observations I have made...demonstrated as correct by application to several very difficult ores." *Author.*

BOSQUI, Francis Lawrence.

Practical notes on the cyanide process. 1899.....669.2 B64

DEL MAR, Alexander.

History of the precious metals from the earliest times to

the present. 1902.....669.2 D41

Bibliography, p.11-22.

Deals with the exploration of the world for gold and silver from the earliest times to the beginning of the 20th century. Maintains that the desire for these metals has been the principal motive leading to the dominion of the world by civilized races. Exhaustive, valuable and very readable work.

EGLESTON, Thomas.

Metallurgy of silver, gold and mercury in the United

States. 2v. 1887-90.....q669.2 E36

v.1. Silver. v.2. Gold and mercury.

The same. 2v. 1887-90.....qr669.2 E36

Treats the subject quite exhaustively but is hardly up-to-date, and can scarcely be accepted as representing the best American practice, even at the date of publication.

EISSLER, Manuel.

Cyanide process for the extraction of gold; its practical application on the Witwatersrand gold-fields and else-

where. 1898.....669.2 E42c

Describes process and gives details of a few South African plants. Information given is rather incomplete.

Metallurgy of gold; a treatise on the metallurgical treatment of gold-bearing ores; including the processes of

concentration, chlorination, and extraction by cyanide,

and the assaying, melting and refining of gold. 1896...669.2 E42

While containing much of value, is to be used cautiously, as the author's information is at times inaccurate.

Metallurgy of silver; a treatise on the amalgamation, roast-

ing and lixiviation of silver ores; including the assaying,

melting and refining of silver bullion. 1898.....669.2 E42m

LOCK, Charles' G. Warnford.

Gold milling principles and practice. 1901.....669.2 L75

Comprehensive practical manual of the operations necessary in the extraction of gold from its ores. Contains descriptions of the chief processes now in use (1901).

LOUIS, Henry.

Handbook of gold milling. 1894.....669.2 L92

Author summarizes his work as commencing with "an account of the physical and chemical properties of gold and of mercury. Stamp mill construction is considered in detail, the mechanical principles underlying the design of each part being throughout elucidated. The theory and practice of concentration, as far as it refers to gold milling, is next considered, together with the most approved modern methods of treating the concentrates and the other products of milling. A chapter on the economic considerations involved, and one on the assaying of gold ores and mill products are also appended."

O'DRISCOLL, Florence.

Notes on the treatment of gold ores. 1889.....r669.2 O14

Outline of methods for those having no knowledge of the subject.

PARK, James.

Cyanide process of gold extraction. 1897.....669.2 P23

Die cyankalium-laugung von golderzen ("Cyanide process of gold extraction"); frei bearbeitet, vermehrt und eingeleitet von Ernst Victor. 1902. (Hartleben's chemisch-technische bibliothek.).....r669.2 P23

Concise exposition of the practice and theory of the cyanide process. Illustrated.

PERCY, John.

Metallurgy; silver and gold. pt.1. 1880.....r669.2 P42

No more published.

Treats only of silver. Gives a clear, accurate review of the subject as developed previous to 1880. Describes the chemical properties, methods of assaying and smelting, etc.

PHILLIPS, John Arthur.

Mining and metallurgy of gold and silver. 1867.....qr669.2 P46

Describes the various producing districts of the world, with statistics as to their yield and importance, and the methods of extraction, refining, etc. in use at the time of publication.

ROSE, Thomas Kirke.

Metallurgy of gold. 1898.....669.2 R71

Bibliography, p.503-514.

The same. 1898.....r669.2 R71

Concise review of methods of treating ores, recovery of gold, refining, assay of ores and bullion, etc. Deals with principles of procedure rather than mechanical details. Especially good for the chemistry of processes.

WILSON, Eugene Benjamin.

Chlorination process. 1897669.2 W76

Cyanide processes. 1897669.2 W76c

The same. 1896r669.2 W76c

"Authorities," p.111-112.

Chiefly a compilation from the periodical and patent office literature. Gives the theory, and points out the factors which have a special bearing in successful operation, but does not go into details of the mechanical arrangements necessary.

669.3 Copper

JAPING, Eduard.

Kupfer und messing, sowie alle technisch wichtigen kupferlegierungen, ihre darstellungsmethoden, eigenschaften und weiterverarbeitung zu handelswaaren. 1883. (Hartleben's chemisch-technische bibliothek.).....r669.3 J18

Copper-reducing and refining, casting in copper and its alloys, forging, rolling and drawing are included.

LAMBORN, Robert H.

- Metallurgy of copper; an introduction to the methods of seeking, mining and assaying copper, and manufacturing its alloys. 1869.....669.3 L18
 "Authorities," p.6.
 Rudimentary treatise for students and artisans.

PETERS, Edward Dyer.

- Modern copper smelting. 1901.....669.3 P45
The same. 1895r669.3 P45
 The standard American work on the subject, (1901).

669.4 Lead

COLLINS, Henry Francis.

- Metallurgy of lead and silver; ed. by Sir W. C. Roberts-Austen. 2v. 1899-1900.....669.4 C71
 v.1. Lead. v.2. Silver.
The same. 2v. 1900r669.4 C71
 Trustworthy, modern and fairly complete. Author has had large practical experience in mining and metallurgical work.

EISSLER, Manuel.

- Metallurgy of argentiferous lead; a practical treatise on the smelting of silver-lead ores and the refining of lead bullion; reports on various smelting establishments and descriptions of modern smelting furnaces and plants in Europe and America. 1891.....669.4 E42
 Chiefly devoted to blast-furnace practice, especially as developed in the United States.

HOFMAN, Henry O.

- Metallurgy of lead and the desilverization of base bullion. 1893r669.4 H68

PERCY, John.

- Metallurgy of lead, including desilverization and cupellation. 1870.....r669.4 P42
 Very complete résumé up to the time of publication. A standard reference work, although antiquated in accounts of practice.

669.7 Aluminium

ALUMINUM world; monthly, Oct. 1894-Dec. 1902. 8v.

- [1895-1903.]qr669.7 A47
 Incorporated with "Metal industry," Jan. 1903.

BLAKE, William Phipps.

- Note on the use of aluminum in the construction of instruments of precision. 1890.....r669.7 H93
 Reprinted from the "Transactions of the American institute of mining engineers," v.18, Feb. 1890.
 Bound with other pamphlets.

COWLES, Eugene H.

- Aluminum bronze and brass as suitable materials for propellers. 1890.....r669.7 H93
 Reprinted from the "Transactions of the American institute of mining engineers," v.18, Feb. 1890.
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 Physical properties of some of the alloys of manganese, copper

- and aluminum. 1890r669.7 H93
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- DROWN, Thomas Messinger, & McKenna, A. G.
 Direct determination of aluminum in iron and steel. 1891. .r669.7 H93
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 Bound with other pamphlets.
- HUNT, Alfred Ephraim.
 Manufacture of aluminium by electrolysis at Niagara, with an abstract of the discussion upon the paper; ed. by James Forrest. 1896.665.4 B83
 Reprinted from the "Minutes of proceedings of the Institution of civil engineers," v.124.
 Description of the process and plant of the Pittsburgh reduction company, by its president (1896).
 Bound with other pamphlets.
- Properties, uses and processes of production of aluminum.
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 Reprinted from the "Technology quarterly," v.4, Apr. 1891.
 Bound with other pamphlets.
- HUNT, Alfred Ephraim, *and others*.
 Chemical analysis of aluminum. 1892.r669.7 H93
 Reprinted from the "Journal of analytical and applied chemistry," v.6, Jan. 1892.
- Properties of aluminum, with some information relating to the metal. 1890.r669.7 H93
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- MIERZINSKI, Stanislaus.
 Die fabrikation des aluminiums und der alkalimetalle. 1885. (Hartleben's chemisch-technische bibliothek.) .r669.7 M67
- NEUHAUSEN, ALUMINIUM INDUSTRIE ACTIEN GESELLSCHAFT.
 Die producte; deren behandlung und verwendung.r669.7 H93
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- PITTSBURGH REDUCTION CO.
 Aluminum and aluminum alloys. 1897.r669.7 P67
- RICHARDS, Joseph William.
 Aluminium, including its alloys. 1896669.7 R41
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 Most complete and authoritative work yet written. Author is (1901) assistant professor of metallurgy at Lehigh university.
- The aluminium problem. 1891.r669.7 H93
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 Historical account of discovery, methods of reduction of ores, etc.
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- SMITH, Oberlin.
 Aluminum in search of a nickname. 1890.r669.7 H93
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669.8 Fuels. Furnaces

DISDIER, Enrique.

Use of blast-furnace and coke-oven gases. 1899.....669.8 H39

Reprinted from the "Journal of the Iron and steel institute," May 1899.

Discusses briefly their value as fuel for gas-engines, and the best methods of using them.

Bound with other pamphlets.

FISCHER, Ferdinand.

Feuerungsanlagen für häusliche und gewerbliche zwecke.

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HEAD, Archibald Potter.

On tilting open-hearth furnaces. 1899.....669.8 H39

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Brief description of the Wellman and Campbell furnaces.

JÜPTNER von JONSTORFF, Hanns, freiherr, & Toldt,

Friedrich.

Chemisch-calorische untersuchungen über generatoren und

Martinöfen. 1900.....qr669.8 J53

Detailed report on a series of tests of the chemical reactions and heat distribution in gas-producers and open-hearth furnaces. Conclusions are drawn as to the relative efficiency of concave and convex roofs for furnaces.

LEDEBUR, A.

Die gasfeuerungen für metallurgische zwecke. 1891.....669.8 L51

PERCY, John.

Metallurgy; refractory materials and fuel. 1875.....r669.8 P42

STEGMANN, H.

Gasfeuerung und gasöfen; eine darstellung ihres wesens

und ihrer beziehungen zu den pyrotechnischen pro-

cessen der thonwaaren-industrie, der kalk- und glas-

fabrikation, sowie verwandter industrieen. 1881.....r669.8 S57

Concise and well illustrated. Good account of the theory and of practice at the time of publication. Treats especially of furnaces used in the ceramic industries.

669.9 Alloys

BRANNT, William Theodore.

Metallic alloys; a practical guide for the manufacture of

alloys, amalgams and solders. 1896.....669.9 B71

BUCHANAN, John F.

Brassfounders' alloys; a handbook containing tables, notes

and data, for the guidance of manufacturers and trades-

men. 1901.....669.9 B84

Directions for the use of various metals in making foundry alloys.

Tables give many practical mixtures.

HIORNS, Arthur Horseman.

Mixed metals; or Metallic alloys. 1891.....669.9 H58

The same. 1890.....r669.9 H58

Treats of the various commercial alloys, methods of manufacturing them, their chemical and physical properties and their uses.

KRUPP, Alfred.

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 Formule for a large number of useful alloys, description of their
 properties and uses, and practical directions for their manufacture.
LEDEBUR, A.
 Die legierungen in ihrer anwendung für gewerbliche
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670 Manufactures

- CHASE, Annie, & Clow, E.**
 Stories of industry. 2v. 1891.....j670 C38
 v.1. About coal, petroleum, mining and manufactures of gold, silver,
 tin and iron, sewing-machines, ship-building, gas-making, etc.
 v.2. About cotton-spinning, calico-printing, carpet-weaving, whale-fish-
 eries, printing, the manufacture of hats, leather, butter and cheese,
 candy, paper, etc.
AMERICAN trade index; descriptive and classified member-
 ship directory of the National association of manufac-
 turers of the United States, arranged for the convenience
 of foreign buyers. 1899.....r670.2 A51
ANNUAIRE-ALMANACH du commerce, de l'industrie, de la
 magistrature et de l'administration; par A. F. Didot et
 Sébastien Bottin. 101e année, in 3v. 1898.....qr670.2 A61
 Trade directory, including full list of Paris firms and selected list for
 the remainder of France and for foreign countries.
GOLDEY, James H. ed.
 Reference book containing a list of buyers of hardware
 and metals throughout the United States. 1881.....r670.2 G57
RÉPERTOIRE du commerce et de l'industrie de la Belgique.
 6e année. 1892.....r670.2 R35
SEEGER and Guernsey's cyclopedia of the manufactures and
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TESCH, Wilhelm, ed.
 Catalogue of Swedish exports. 1892.....qr670.2 T31
TUGMAN & CO. pub.
 Classified directory of the manufacturing interests of
 Pennsylvania. 1900.....r670.2 T82
 Text in English, French, German, Spanish and Portuguese.
 Contains also a key to the symbols used.
UNITED STATES industrial directory. 1876.....r670.2 U25
WRIGHT, George, pub.
 Australian, India, China and Japan trade directory and ga-
 zetteer. 1891.....r670.2 W93
 Includes also Canada, South America, Central America, West Indies,
 Mexico and South Africa.
The same. 1899.....r670.2 W93a
BISHOP, James Leander.
 History of American manufactures from 1608 to 1860. 2v.
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671 Articles made of metals

BLINN, Leroy J.

Practical work-shop companion for tin, sheet-iron and copper-plate workers. 1893.....671 B55

HARTMANN, Friedrich.

Das verzinnen, verzinken, vernickeln, verstählen, und das ueberziehen von metallen mit anderen metallen ueberhaupt. 1899. (Hartleben's chemisch-technische bibliothek.)r671 H32
Includes mechanical and electrochemical processes.

HIORNS, Arthur Horseman.

Metal-colouring and bronzing. 1892.....671 H58

The same. 1892.....r671 H58

Formule for coloring metals by chemical, electrochemical and mechanical means. Directions and the results of personal tests are given.

LARKIN, James.

Practical brass and iron founder's guide; a treatise on brass founding, moulding, the metals and their alloys, etc. 1899.....671 L32

Receipt-book, containing short practical directions for various processes of molding, casting, etc. Out of date in many places (1899).

LETHABY, William Richard.

Leadwork, old and ornamental, and for the most part, English. 1893.....671 L65

"Lead work has been an important branch of decorative architecture. American roof-fittings in tin and copper give no idea of the truly ornamental uses to which lead has been applied in Europe for seven centuries. Some attempt is being made in these days to revive the ancient art, and upon this, and upon the ancient practice, this is an excellent essay." *Russell Sturgis.*

MILLIS, Charles Thomas.

Metal-plate work; its patterns and their geometry; also notes on metals, and rules in mensuration, for the use of tin, iron and zinc plate workers, coppersmiths, boiler-makers, plumbers and others. 1899.....671 M69

ROWELL, Harvey.

Manual of instruction in hard soldering, with a chapter on soft soldering. 1895.....671 R79

WARN, Reuben Henry.

Sheet metal worker's instructor, containing geometrical problems, also practical rules for describing various patterns. 1895.....671 W23

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1891-Dec. 1892, Jan.-June 1894, 1896. v.15, 17-19, 22, 26-27. 1890-96.....qr671.05 A51

CHICAGO journal of commerce and metal industries; weekly,

July 1891-Dec. 1893. v.59-63. 1891-93.....qr671.05 C43
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IRONMONGER; weekly. v.74-date. 1896-date.....qr671.05 I28

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and house furnishing trades, Feb.-Dec. 1876, 1903-date.
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MARKS, Edward Charles Robert.

Manufacture of iron and steel tubes. 1897.....671.1 M39

"Of interest especially on account of bicycles. Compiled almost entirely from patent specifications, the treatment is, in consequence, somewhat superficial. As a record of the general features of the invention, it is an interesting and valuable little book." *Engineer*, 1897.

ANDÉS, Louis Edgar.

Blattmetalle, bronzen und metallpapiere; deren herstellung und anwendung. 1902. (Hartleben's chemisch-technische bibliothek.).....r671.2 A55

Practical handbook giving details of the methods used.

JAPING, Eduard.

Blech und blechwaaren. 1886. (Hartleben's chemisch-technische bibliothek.).....r671.2 J18

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672 Articles made of iron and steel

GARDNER, John Starkie.

Ironwork. 2v. 1893-96. (South Kensington museum art handbooks.) 672 G18

v.1. From the earliest times to the end of the mediæval period.

v.2. From the close of the mediæval period to the end of the 18th century, excluding English work.

History of artistic iron-working. Contains many illustrations.

IRON.

Price lists of manufactured goods and hardware from Birmingham and district, selected and reprinted from "Iron," the journal of science, metals and manufactures.

v.1. 1876.....qr672 I2862

JAPING, Eduard.

Die darstellung des eisens und der eisenfabrikate. 1881.

(Hartleben's chemisch-technische bibliothek.).....r672 J18d
pt.1 of his "Eisen und eisenwaaren."

Popular description of methods of obtaining iron, casting, rolling bars and sheets, wire-drawing, tube-making, plating and working hot and cold. Especially for iron merchants and consumers.

French and English equivalents of the technical terms used are given.

Der praktische eisen- und eisenwaarenkenner. 1882. (Hartleben's chemisch-technische bibliothek.).....r672 J18p
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Statistics, prices, properties, forms, etc. of rods, sheets, wire, tubes, castings, tools and other commercial forms of iron and steel. For iron merchants and consumers.

MORGAN, Charles H.

Some landmarks in the history of the rolling mill; presidential address delivered before the American society of mechanical engineers, New York meeting, December 1900. 1900.....q672 M89

Brief history of its development.

OIL WELL SUPPLY CO.

Illustrated catalogue. 1892.....qr672 O19

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ROWNSON, DREW & CO.

- Rownson's iron merchant's tables and memoranda, weights and measures, etc. 1899.....r672 R79
Weights of flat, square and round bar-iron, of steel angles and tees, rivets, bolts, sheets, etc.

672.1 Tin-plate. Galvanized iron

AYER, Ira.

- Special report to the secretary of the treasury, showing the production of tin and terne plates in the United States during the year ended June 30, 1892. 1892.....r672.1 A97
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DAVIES, James, of London.

- Galvanized iron; its manufacture and uses; a detailed description of this important industry and its manufacturing process. 1899.....672.1 D31
Advice on the organization of works, cultivation of markets and other commercial matters, intended for those starting in the manufacture. Description of technical processes is disjointed and only outlines the manufacture.

FLANDERS, W. T.

- Galvanizing and tinning; a practical treatise on coating with tin and zinc, with a chapter on tinning gray iron castings. 1900.....672.1 F61
Treats only of methods for cast-iron, and small articles of wrought-iron and steel.

FLOWER, Philip William.

- History of the trade in tin; a short description of tin mining and metallurgy, a history of the origin and process of the tin-plate trade, and a description of the ancient and modern processes of manufacturing tin-plates. 1880r672.1 F66

WEEKS, Joseph Dame.

- Tin and tin plate; their history, production and statistics. 1892qr672.1 W42
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672.3 Wire

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- Draht und drahtwaaren. 1884. (Hartleben's chemisch-technische bibliothek.).....r672.3 J18
Raw materials for wire-making, methods of rolling and drawing, classification and properties, wire rope, cables, wire for electrical uses, insulated wire, wire nails, screws, needles, etc.

SMITH, J. Bucknall.

- Treatise upon wire; its manufacture and uses. 1891.....q672.3 S65
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FULLER, John.

- Art of coppersmithing; a practical treatise on working sheet copper into all forms. 1894.....r673 F98
Covers all classes of wrought work, both light and heavy, illustrating tools and patterns, and describing in detail the methods of construction.

MÜLLER, Ludwig.

- Die bronzewaaren-fabrikation. 1877. (Hartleben's chemisch-technische bibliothek.).....r673 M95
 Composition of various brasses and bronzes, directions for casting bells, statues and other objects, for finishing castings and for bronzing wood and various metals.

674 Cooperage

VOIGT, Otto.

- Fabrikation, berechnung und visiren der fässer, bottiche und anderer gefässe. 1893. (Hartleben's chemisch-technische bibliothek.).....r674 V37
 Chapters on tools, wood, methods of manufacture, manufacture with machines, description of various designs, methods of designing and laying out, calculation of contents, gaging, calculation of dimensions for a given capacity.

675 Leather

DAVIS, Charles Thomas.

- Manufacture of leather. 1897.....675 D31
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HEINZERLING, Christian.

- Grundzüge der lederbereitung, mit besonderer berücksichtigung der neueren fortschritte auf diesem gebeite; ein handbuch für gerber, techniker, etc. 1882. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r675 H42

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KNAPP, Friedrich Ludwig.

- Mineralgerbung mit metall-salzen und verbindungen aus diesen mit organischen substanzen als gerbmittel. 1892. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r661.11 F52
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LELAND, Charles Godfrey.

- Leather work; a practical manual for learners. 1892675 L57
 Simple methods for molding, carving and stamping.

PROCTER, Henry Richardson.

- Leather industries; laboratory book on analytical and experimental methods. 1898.....675 P96

STANDAGE, H. C.

- Leather worker's manual; a compendium of practical recipes and working formulæ for all persons engaged in the manipulation of leather. 1900.....675 S78
 Methods of preparing and using the various currying, dyeing and finish-

ing compounds, blackings and polishes used by saddle and boot makers, etc.

VILLON, A. M.

Practical treatise on the leather industry; tr. by F. T. Addyman. 1901q675 V33

Treats of materials used in tanning, methods of tanning and currying, special methods of preparing skins, testing of leather, theory of tanning, and uses of leather. Methods are chiefly those of the French tanners.

WATT, Alexander.

Art of leather manufacture; a practical handbook. 1897....675 W32
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WIENER, Ferdinand.

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(Hartleben's chemisch-technische bibliothek.).....r675 W681

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676 Paper

ANDÉS, Louis Edgar.

Die fabrikation der papiermaché- und papierstoff-waaren.
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Practical treatise for manufacturers.

Papier-specialitäten; praktische anleitung zur herstellung von den verschiedensten zwecken dienenden papierfabrikaten. 1896. (Hartleben's chemisch-technische bibliothek.)r676 A55

Includes parchment, fireproof, waterproof, enamelled, reagent, gummed, photographic, copying, and medicinal papers, fly papers, imitations of ivory and leather, and many other papers for special uses.

BUTLER, (J. W.) PAPER.CO.

Story of paper-making; an account of paper-making from its earliest known record. 1901.....676 B97
Interesting, non-technical description, intended for general reading.

CROSS, Charles Frederick, & Bevan, E. J.

Text-book of paper-making. 1900.....676 C89
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DUNBAR, James.

Practical papermaker; a guide to the manufacture of paper.
1887676 D89
Collection of notes on various points, receipts, etc.

HOYER, Egbert von.

Die fabrikation des papiers, nebst gewinnung der fäsern aus ersatzstoffen, insbesondere aus holz, stroh und alfa; und anleitung zur prüfung des papiers auf seine eigenschaften und zusammensetzung. 1887. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r676 H86
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[KOOPS, Matthias.]

- Historical account of the substances which have been used to describe events and to convey ideas from the earliest date to the invention of paper. 1800.....r676 K37
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MIERZINSKI, Stanislaus.

- Handbuch der praktischen papier-fabrikation. 3v. 1886.
 (Hartleben's chemisch-technische bibliothek.).....r676 M67
 Complete treatise, describing raw materials, machinery and methods.
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MUNSELL, Joel.

- Chronology of the origin and progress of paper and paper-making. 1876.....676 M96
 Covers period 670 B. C.—1877 A. D.

PARKINSON, Richard, *teacher at Harris institute.*

- Treatise on paper, with an outline of its manufacture, complete tables of sizes, etc. 1896.....676 P24
 Handbook of manufacture and characteristics of paper, for printers and stationers.

SCHUBERT, Max.

- Manufacture of cellulose; a practical treatise for paper and cellulose technologists, managers and superintendents; specially tr. for the American paper trade by Andrew Geyer. 1899.....676 S38

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The same. 1900. (In its Special consular reports, v.19.) .r382 U25s v.19
 General reports on the paper industry.

677 Textile fabrics

ASHENHURST, Thomas R.

- Design in textile fabrics. 1899. (Manuals of technology.)...677 A82
 Brief manual of the principles, including a discussion of the proper structure of the fabric and its suitability for the intended use.

BEAUMONT, Roberts.

- Colour in woven design. 1890. (Specialists' series.).....677 B35
 Explains the theory of coloring woven fabrics, and illustrates its practical application in producing fancy shades.

BOTTLER, Max.

- Die animalischen faserstoffe; ein hilfs- und handbuch für die praxis, umfassend vorkommen, gewinnung, eigenschaften und technische verwendung, sowie bleichen und färben thierischer faserstoffe. 1902. (Hartleben's chemisch-technische bibliothek.).....r677 B64a
 Die vegetabilischen faserstoffe; ein hilfs- und handbuch für die praxis, umfassend vorkommen, gewinnung, eigenschaften und technische verwerthung, sowie bleichen und färben pflanzlicher faserstoffe. 1900. (Hartleben's chemisch-technische bibliothek.).....r677 B64

ESSLINGER, Rudolf.

Die fabrikation des wachstuches, des amerikanischen leder-
tuches, des wachs-taffets, der maler- und zeichen-lein-
wand. 1880. (Hartleben's chemisch-technische biblio-
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POLLEYN, Friedrich.

Die appreturmittel und ihre verwendung. 1897. (Hart-
leben's chemisch-technische bibliothek.)r677 P76
Materials and methods employed for linen, cotton, silk and woolen
fabrics, also methods for incombustible and waterproof finishing.

ROCK, Daniel.

Textile fabrics. 1876. (South Kensington museum art
handbooks.)677 R57
Popular account of their history, illustrated with numerous woodcuts of
fine examples of artistic weaving. Intended as an introduction to the
study of textiles.

SEEMANN, Theodor.

Die tapete; ihre ästhetische bedeutung und technische dar-
stellung, sowie kurze beschreibung der buntpapier-fab-
rikation. 1882. (Hartleben's chemisch-technische bib-
liothek.)r677 S45

WINSHIP, Albert Edward.

Our industries; fabrics. 1897.....677 W78
Contents: Sheep, wool and woolens.—Carpets.—Wool supply.—Cotton.—
Silk.—Linens.

WITT, Otto N.

Chemische technologie der gespinntfasern; ihre ge-
schichte, gewinnung, verarbeitung und veredelung.
1888-1902. (Handbuch der chemischen technologie;
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General review of all the fibers commonly used.

677.1 Cotton

MARSDEN, Richard.

Cotton spinning; its development, principles and practice.
1899. (Technological handbooks.)677.1 M41
Contains an appendix on steam-engines and boilers.
"Writer has endeavoured to give...a concise view of the origin and
present extent of this great trade; the material it deals with; the
general principles that contribute to its successful conduct; the proper
location and construction of a mill, and arrangement of the machinery;
and the various processes...In connection it has been attempted to
trace the development, describe the function of the leading parts,
and show the working of the various machines employed." *Preface.*

NASMITH, Joseph.

Student's cotton spinning. 1896.....677.1 N14
Describes concisely, yet thoroughly, all the various operations in the
manufacture of cotton yarn, and the machinery in practical use.

TAYLOR, John T.

Cotton weaving and designing. 1898.....677.1 T25
Text-book dealing with mechanical details.

WHITE, George Savage.

Memoir of Samuel Slater, the father of American manu-
factures; connected with a history of the rise and pro-
gress of the cotton manufacture in England and Amer-
ica, with remarks on the moral influence of manufac-

tories in the United States. 1836.....r677.1 W63
 Samuel Slater (1768-1835) was the first successful cotton-manufacturer in America. This industry he started in 1790 at Pawtucket, Rhode Island, using machinery designed entirely from his memory of that used in England, the laws of which country at that time forbade the exportation of drawings or models of the machines.

677.2 Wool

BEAUMONT, Roberts.

Woollen and worsted cloth manufacture; a practical treatise for the use of all persons employed in the manipulation of textile fabrics. 1899. (Technological handbooks.)...677.2 B35
 Intended to cover in a concise, yet comprehensive manner the whole routine of the manufacture of woollen textiles.

BOWMAN, Frederick H.

Structure of the wool fiber in its relation to the use of wool for technical purposes. 1885.....677.2 B66
 Lectures delivered to the students of the Bradford (Eng.) technical college and the members of the Dyers' and colourists' society.

FORD, Worthington Chauncey.

Wool and manufactures of wool. 1894.....r677.2 F76
 Report upon the production, commerce and consumption of wools and manufactures of wools in the leading nations of the world. Chiefly statistical.

JOCLÉT, Victor.

Die woll- und seiden-druckerei in ihrem ganzen umfange. 1879. (Hartleben's chemisch-technische bibliothek.)...r677.2 J33
 Describes machinery employed, gives receipts for colors, and details of processes used.

McLAREN, Walter Stowe Bright.

Spinning woollen and worsted; a practical treatise for the use of all persons engaged in these trades. 1899.
 (Manuals of technology.).....677.2 M10

McMURTRIE, William.

Report upon an examination of wools and other animal fibers. 1886. (United States—Agriculture, Department of.)qr677.2 M21
 Results of an examination of the "minute structure of the fiber of different breeds, its length, crimp, fineness, strength, and elasticity, and discussion of the relation of each of these properties to the other, and to the breed, sex, age, and portion of fleece represented."

677.3 Silk

BROCKETT, Linus Pierpont.

Silk industry in America; a history prepared for the Centennial exposition. 1876.....677.3 B76
 Contains the fourth annual report of the Silk association of America.

SÜVERN, Carl.

Die künstliche seide; ihre herstellung, eigenschaften und verwendung, unter besonderer berücksichtigung der patentlitteratur. 1900.....r677.3 S96
 Compilation describing the various patented processes and the properties of the silk produced by each, with a chapter on its use. Contains samples of the silk, showing effect of various dyes.

WYCKOFF, William Cornelius.

Silk goods of America; a brief account of the recent im-

- provements and advances of silk manufacture in the United States. 1879.....r677.3 W98
 Contains the seventh annual report of the Silk association of America.
 Essay, for consumers, on the merits of American silk, with an appendix giving statistics and a directory of American silk manufacturers, dealers, importers and brokers.

678 Rubber

BRANNT, William Theodore.

India rubber, gutta-percha and balata. 1900.....678 B71

"Aim...is to give the reader a knowledge of the raw materials as well as to present the industry in all its various branches as carried on by the most progressive manufacturers." *Preface.*

HEINZERLING, Christian.

Die fabrikation der kautschuk- und guttaperchawaaren, sowie des celluloids und der wasserdichten gewebe, mit besonderer berücksichtigung der neueren fortschritte die in diesen industriezweigen gemacht worden sind; ein handbuch für techniker, fabrikanten, gelehrte, etc. 1883. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r675 H42
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 Bound with his "Grundzüge der lederbereitung."

HOFFER, Raimund.

Kautschuk und guttapercha. 1892. (Hartleben's chemisch-technische bibliothek.).....r678 H67

OBACH, Eugene F. A.

Gutta percha. 1898. (Cantor lectures.).....q678 O12
 Delivered before the Society for the encouragement of arts, manufactures and commerce, Nov. 29-Dec. 13, 1897.
 Well-illustrated monograph on all branches of the industry. Contains the results of long experience and of much research carried out in the laboratories of Siemens brothers and company.

PEARSON, Henry Clemens.

Crude rubber, and compounding ingredients; a text-book of rubber manufacture. 1899.....r678 P35
 Gives the varieties, substitutes, methods of manufacture, vulcanizing, etc. Contains a chapter on gutta-percha.

SLOANE, Thomas O'Connor.

Rubber hand stamps and the manipulation of rubber. 1900..r678 S63
 Includes chapters on glue stamps, the hektrograph, special cements and inks.

STEFAN, August.

Die fabrikation der kautschuk- und leimmasse-typen, -stempel und druckplatten, sowie die verarbeitung des korkes und der korkabfälle. 1900. (Hartleben's chemisch-technische bibliothek.).....r678 S81
 First part forms a practical handbook of all branches of stamp-making. Second part treats of cork-cutting, methods and machines, manufacture of linoleum, cork paper and other waste cork products.

679 Celluloid

ANDÉS, Louis Edgar.

Die verarbeitung des hornes, elfenbeins, schildpatts, der knochen und der perlmutter. 1885. (Hartleben's che-

- misch-technische bibliothek.).....r679 A55v
 Occurrence of raw materials, uses, methods of coloring, polishing, decorating, utilizing waste material, etc.
- BÖCKMEYER, Friedrich.
 Das celluloid; seine rohmaterialen, fabrikation, eigenschaften und technische verwendung. 1894. (Hartleben's chemisch-technische bibliothek.).....r679 B57
- LEHNER, Sigmund.
 Die imitationen; eine anleitung zur nachahmung von natur- und kunstproducten. 1893. (Hartleben's chemisch-technische bibliothek.).....r679 L55
 Among the more important subjects are imitations of ivory, marble, pearl, wood, amber, various stones, silk and leather. A practical handbook, giving receipts, methods of casting, mixing and using.

679.1 Rattan and straw-weaving

- ANDÉS, Louis Edgar.
 Praktische handbuch für korbflechter. 1887. (Hartleben's chemisch-technische bibliothek.).....r679.1 A55p
- Die verarbeitung des strohes zu geflechteten und strohhüten, matten, flaschenhülsen, sielen, in der papierfabrikation und zu vielen anderen zwecken. 1898. (Hartleben's chemisch-technische bibliothek.).....r679.1 A55

680 Mechanic trades

- AMATEUR work, illustrated. 10v. 1882-91.....q680 A48
 Titles of the different volumes vary.
- CASSAL, Hans J. S.
 Workshop makeshifts. 1898.....680 C25
Contents: Lathes and lathe appliances.—The home manufacture of tools for metal work.—The home manufacture of tools for wood-working.—Miscellaneous tools and recipes.
- The same*.....j680 C25
- HOW to make and how to mend, by an amateur mechanic.
 1900j680 H84
The same. 1900.....680 H84
- LELAND, Charles Godfrey.
 Manual of mending and repairing. 1896.....680 L57
 Best methods of repairing broken china, books, ivory, metal-work, leather-work, etc.
- LUKIN, James.
 Boy engineers; what they did and how they did it. 1893..j680 L97b
 True story of two boys who became engineers; describes making tools, building workshop and constructing machines.
- Young mechanic, containing directions for the use of all kinds of tools. 1894.....j680 L97
 Also directions for use of lathe, construction of steam-engines, mechanical models and metal-working.
- SCHOFIELD, Robert James, and others.
 Home mechanic and complete self-instructor in carpentry, painting, horse-shoeing, soap making, candy making, baking, taxidermy, tanning, etc. 1897.....r680 S36

WAITE, Henry Randall, *ed.*

Boy's workshop. 1884.....j68o W14

Outlines in a very practical way the care and use of tools and the making of useful articles.

Contains among other things: "How to make a tool cabinet," "How to build a portable wooden tent," "A boy's railway and train," "How to bind magazines," "How to photograph," "Archery for boys."

681 Watch and instrument making

BRITTEN, Frederick James.

Old clocks and watches and their makers; an historical and descriptive account of the different styles of clocks and watches of the past, in England and abroad; to which is added a list of eight thousand makers. 1899...681 B750
Interesting, readable and well illustrated.

On the springing and adjusting of watches. 1898.....681 B75
"Intended for those tolerably conversant with watchmaking generally... Knowledge of many elementary facts is assumed." *Preface.*

Watch and clock makers' handbook, dictionary and guide.
1896r681 B75
Combination of dictionary, encyclopedia and handbook. Written in a clear style and well illustrated.

KEMLO, F.

Watch-repairer's hand-book; a complete guide to the beginner in taking apart, putting together and thoroughly cleaning the English lever and other foreign watches, and all American watches. 1891.....681 K17
Directions are scarcely full enough to warrant title.

SAUNIER, Claudius.

Treatise on modern horology. 1887.....qr681 S25
Standard treatise on theory and practice.

WOOD, Edward J.

Curiosities of clocks and watches from the earliest times.
1866r681 W85
Compilation of interesting facts regarding curious clocks and watches, those which have belonged to noted persons, and others which are famous or unusual.

ZEITSCHRIFT für instrumentenkunde; organ für Mittheilungen aus dem gesammten gebiete der wissenschaftlichen technik; [monthly]. v.1-date. 1881-date....qr681.05 Z43
From Jan. 1896 there has been issued and bound with the "Zeitschrift," a supplement, having a separate title-page, which is at first called "Beiblatt zur Zeitschrift für instrumentenkunde; vereinsblatt der Deutschen gesellschaft für mechanik und optik," and later "Deutsche mechaniker-zeitung."

682 Blacksmithing. Metal-working

COMPTON, Alfred George.

First lessons in metal-working. 1890.....r682 C73
Text-book for classes in manual training.

RICHARDSON, Milton Thomas, *ed.*

Practical blacksmithing. 4v. 1889-95.....682 R41
Compilation of articles contributed to the "Blacksmith and wheelwright."
Forms a fairly complete manual of tools and methods.

SCHLOSSER, Edmund.

Das löthen und die bearbeitung der metalle. 1891. (Harten's chemisch-technische bibliothek.).....r682 S34

682.1 Horseshoeing

HUNTING, William.

Art of horse-shoeing; a manual for farriers. 1898.....682.1 H94

"An endeavor has been made to be as simple and clear as possible in expression, to lay down correct general principles and to point out the technical details which are essential to good shoeing." *Preface.*

LUNGWITZ, Clemens Anton.

Text-book of horseshoeing; for horseshoers and veterinarians. 1898.....682.1 L97

RUSSELL, William, of Cincinnati.

Scientific horseshoeing. 1895.....r682.1 R91

Considers the use of shoes in correcting the action and gait of horses and in remedying diseases of the foot. A practical manual.

683 Lock and gun making

ESSAY on shooting. 1791.....r683 E84

Includes a non-technical description of the methods of manufacturing gun-barrels, essays on recoil and bursting, on the cause determining the range, instruction in shooting and in training pointers, and descriptions of English game and the methods of hunting.

GREENER, William Wellington.

The gun and its development. 1899.....683 G84g

The same. 1896.....r683 G84

Treatise on small arms, by a leading English manufacturer. Treats of military rifles, but pays particular attention to sporting arms and especially to shot-guns.

RIVERS, Augustus Henry Lane Fox Pitt.

On the development and distribution of primitive locks and keys. 1883.....qr683 R52

Description of the author's collection, with illustrations of a large number of forms.

YALE & TOWNE MANUFACTURING CO.

Catalogue no.14; locks and hardware. 1893.....r683 Y13

684 Cabinet-making. Wood-working

ARKWRIGHT, John P. *ed.*

Cabinet-making for amateurs. [1899.].....684 A72

Requires some knowledge of the use of tools.

BARTER, S.

Manual instruction; woodwork, (the English sloyd).

1892.....684 B27

For teachers. Follows the course required in the examinations of the City and guilds of London institute.

BOWER, John A.

How to make common things; for boys. 1892.....j684 B66

Describes simple forms of toys, furniture, woodwork, electric apparatus, wirework, ironwork, etc.

DENNING, David.

Art and craft of cabinet-making. 1891.....684 D43

For amateurs and young furniture-makers.

GOSS, William Freeman Myrick.

Bench work in wood; a course of study and practice, designed for the use of schools and colleges. 1899.....684 G69
 Author is (1899) professor of practical mechanics in Purdue university.
 Treats of bench tools and their use, and the elements of wood-construction. Simple and practical.

HODGSON, Frederick Thomas.

Hand saws; their use, care and abuse, how to select and how to file them. 1896.....684 H66
 "Authorities," p.4.

HOFFMAN, B. B.

Sloyd system of wood working; with a brief description of the Eva Rodhe model series, and an historical sketch of the growth of the manual training idea. 1892.....684 H67

JOURNEYMEN cabinet and chair-makers' Philadelphia book of prices. 1795.....r684 J46

KILBON, George B.

Elementary woodwork. 1893.....j684 K25

LUKIN, James.

Picture frame making for amateurs. [1882.].....684 L97

NYE, Alvan Crocker.

Furniture designing and draughting; notes on the elementary forms, methods of construction and dimensions of common articles of furniture. 1900.....q684 N54
 Intended for students of design, architects, etc. Does not treat of methods of construction except as they relate to draftsman's work.

RICKS, George.

Manual training, woodwork; a handbook for teachers, with an appendix on modelling in cardboard as an introduction to woodwork. 1898.....q684 R43

SHERATON, Thomas.

Cabinet-maker and upholsterer's drawing-book; revised and prepared for the press by J. M. Bell. 1895.....qr684 S55
 Reprint of the edition of 1802.

"Sheraton was the apostle of the severer taste in English cabinet-making which followed upon the rococo leanings of his great predecessor, Thomas Chippendale...The central doctrines of all his work and writing are that ornamentation must subserve utility, that the lines of construction, if sound, connote beauty, and that a successful simplicity is harder and more worthy of attainment than the highest development of Louis-Quinze superfluity. That his principles were not the outcome of a mere vague intuition is evidenced by the admirable treatises on geometry, architecture, and perspective with which he introduces his monumental 'Cabinet-maker and Upholsterer's Drawing-book.'" *Dictionary of national biography.*

UNWIN, William Cawthorne.

Exercises in wood-working for handicraft classes in elementary and technical schools; [plates]. 1892.....qr684 U25
 Set of graduated drawings of suitable pieces of work.

WHEELER, Charles Gardner.

Woodworking for beginners. 1900.....684 W61
The same.....j684 W61

"Aim is to suggest to amateurs of all ages many things which they can profitably make of wood, and to start them in the way to work successfully...Great care...has been taken to include only what can be profitably done by an intelligent boy of from ten to eighteen or by the average untrained worker of more mature years." *Preface.*

WOOD-WORKING tools; how to use them; a manual.

1896 684 W87
Prepared for the Industrial school association of Boston, by one of its committees.

686 Bookbinding

BOECK, Josef Phileas.

Die marmorirkunst. 1896. (Hartleben's chemisch-technische bibliothek.) r686 B58
Theoretical and practical. Describes apparatus and processes in detail. Includes description of machinery for manufacturing marbled paper in large quantities.

BRASSINGTON, William Salt, *ed.*

History of the art of bookbinding, with some account of the books of the ancients. 1894. q686 B71
Well illustrated with colored plates and drawings in the text.

COCKERELL, Douglas.

Bookbinding and the care of books; a text-book for bookbinders and librarians. 1901. (Artistic crafts series of technical handbooks.) 686 C64
Useful handbook of workshop practice. Describes minutely every process and tool connected with bookbinding. Fully illustrated.

DAVENPORT, Cyril.

Royal English bookbindings. 1896. (Portfolio monographs.) qr686 D29
Describes the bindings of books, chiefly those in the British museum which have been bound for rulers of England. Numerous plates, some of which are colored.

FLETCHER, William Younger.

Bookbinding in England and France. 1897. q686 F63
Consists of "Portfolio monograph" no. 10, entitled "Bookbinding in France," and minor articles on bookbinding in England.

Bookbinding in France. 1894. (Portfolio monographs.) qr686 F63
Brief, accurate account of the history and growth of the art in France. Numerous illustrations, some in colors.

HALFER, Josef.

Progress of the marbling art. 1894. 686 H16

HORNE, Herbert Percy.

Binding of books. 1894. (Books about books.) 686 H79
Essay in the history of gold-tooled bindings in France, Italy and England. Includes a well-written description of the technical methods of bookbinding.

MATTHEWS, Brander.

Bookbindings, old and new. 1895. 686 M47
"The Grolier club of New York," p. 289-335.
Pleasant and very readable account. Contains many illustrations.

PRIDEAUX, Sarah Treverbian.

Historical sketch of bookbinding. 1893. 686 P94
Bibliography, p. 251-294.
"Miss Prideaux is a practical bookbinder; one of those persons who in England have devoted themselves to handwrought, specially designed binding in the spirit of ancient handicraft. The book is capable of giving a close and very intimate sense of the essential characteristics of the art as it was practiced in the past, when it was a decorative art as important as most others." *Russell Sturgis.*

SOCIETY FOR THE ENCOURAGEMENT OF ARTS, MANUFACTURES AND COMMERCE.

Report of the committee on leather for bookbinding. 1901. q686 S67

Appendixes: Hints to owners and keepers of libraries.—Circular to librarians and replies.

The same. 1901qr686 S67

Inquiry into the durability of modern leather bookbindings, the comparative durability of various leathers and causes of deterioration. Suggests methods of binding and preservation.

ZAEHNSDORF, Joseph William.

Art of bookbinding. 1890. (Technological handbooks.)....686 Z17

Describes the various processes of binding in a clear and practical manner, giving directions for trade binding, and also for more elaborate and artistic work. Of value to those who are in the trade, as well as to amateurs.

689 Weaving. Basketry

BOWLING, Tom, *pseud.*

Book of knots; a complete treatise on the art of cordage, describing the manner of making every knot, tie and splice. 1899.....j689 B66

FIRTH, Annie.

Cane basket work; a manual on weaving useful and fancy baskets. 1899.....689 F52

Practical elementary directions for teachers and amateurs. Fully illustrated. Adapted specially to English conditions.

LATTER, Lucy R.

Cane weaving for children. 1900.....689 L36

Instruction book for teachers. Gives exercises suitable for children from six to ten years of age.

WALKER, Louisa.

Varied occupations in weaving. 1895.....689 W17

Gives exact descriptions of all sorts of weaving that can be done in schools, from the paper mats of the kindergarten to quite elaborate baskets, with suggestions for articles to be made. Many illustrations. Written by an English teacher and adapted to English conditions.

WHITE, Mary.

How to make baskets. 1901.....689 W63

Practical guide, giving descriptions of materials and tools, and detailed directions for the different kinds of weaving. Includes a chapter on "What the basket means to the Indian," by Neltje Blanchan. Many illustrations, particularly of fine specimens of Indian work.

690 Building

BERG, Louis de Coppet.

Safe building; rules and formulæ used in the construction of buildings. 2v. 1892-94.....690 B45

BURRELL, Edward J.

Elementary building construction and drawing. 1899.....690 B94

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SUTCLIFFE, George L.

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BOWER, W. Frank.

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- "Not a treatise on specifications, nor instructions in writing them... [but] an arrangement of the matter commonly used in specification writing, in a form from which specifications for most buildings may be prepared with more than usual facility and with a reasonable degree of certainty that nothing has been omitted." *Preface.*

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Detailed reports of tests made by the New York building department.

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Contents: Apparatus.—Mill fires.—Electric lighting.—Miscellaneous.—Mill construction.—Mill floors.—Strength of storehouse floors.—Stiffness of mill floors.—Construction of floors.—Summary of formula.—Strength of wood mill columns.

Considers those matters of equipment and general management which experience has proved efficient, and the restriction of injury by means of slow-burning construction.

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BURN, Robert Scott, *ed.*

Carpenter and joiner. 1892.....694 B92

Compiled from articles in an English trades paper. Covers all important points in timber-construction.

COLLINGS, George.

Circular work in carpentry and joinery. 1890.....694 C69

Directions for laying out and finding the molds for various forms of curved door-frames, walls, arches, etc.

FLETCHER, Banister Flight, & Herbert Phillips.

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GOULD, Lucius D.

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Practical carpentry. 1883.....694 H66

Simple directions for ordinary carpentry and joinery, with a collection of useful tables.

MELOY, D. H.

Progressive carpentry; fifty years' experience in building, many valuable improvements made which are fully explained, with a system of framing roofs. 1900.....694 M59

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TREDGOLD, Thomas.

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Every man his own mechanic. 1896.....694 Y37e

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Tells what tools the amateur needs and how to use them.

Home carpentry for handy men. 1896.....694 Y37

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Art and science of stair building. 1885.....694.8 C73

For practical carpenters.

HASLUCK, Paul Nooncree, *ed.*

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The same. 1899.....r694.8 H33

"Contains, in a form convenient for every day use, a comprehensive digest of information, contributed by experienced craftsmen, scattered over the columns of 'Building world.'" *Preface.*

HODGSON, Frederick Thomas, *ed.*

Handrailing simplified, sectorian system; a novel method of finding curves, twists, wreaths, ramps and cuts for handrailing over circular and elliptical stairs, by an experienced architect. 1900.....694.8 H66h

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Stair-building made easy; a full and clear description of the art of building the bodies, carriages and cases for all kinds of stairs and steps. 1892.....694.8 H66

MOWAT, William, & Alexander.

Treatise on stairbuilding and handrailing. 1900.....qb694.8 M94

SHERRATT, R. J.

Elements of hand-railing; showing how to lay out stairs of all kinds. 1880.....qb694.8 S55

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HART, John W.

External plumbing work; a treatise on lead work for roofs.

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JOHNSTON, Sidney Paine, *comp.*

Cornice work manual; an exposition of cornice work in all its branches. 1900.....695.4 J37

Laying out, making and erecting sheet metal cornices.

LUHMANN, E.

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DAVIES, Philip John.

Standard practical plumbing; a history and encyclopædia for practical plumbers. 2v. 1895-96.....r696 D31
Describes methods for all kinds of internal and external work. English practice and apparatus.

HELLYER, Samuel Stevens.

Principles and practice of plumbing. 1893. (Technological handbooks.).....696 H42

LAWLER, James Joseph.

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Practical treatise on these subjects, written in clear, plain language and supplemented by numerous drawings and sketches.

SMEATON, John, C. E.

Plumbing, drainage, water supply and hot water fitting.

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Practical treatment, following British standards.

ENGINEERING RECORD.

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Reprint of articles from "Engineering record."

Describes actual plumbing installations in a number of dwellings, hotels, hospitals, office buildings, theaters, etc., and gives the solutions of problems which have occurred in practice.

REVILL, Alfred.

American plumbing; a compendium of practical plumbing

from solder making to high-class open work. 1894.....696.1 R36

HASLUCK, Paul Nooncree, *ed.*

Practical gas-fitting, (including gas manufacture). 1900..696.2 H33

Includes also chapters on gas-burners, incandescent gas-lighting, and gas-stoves for heating and cooking.

697 Heating and ventilation

BALDWIN, William James St. John.

Outline of ventilation and warming. 1899.....697 B190

BOX, Thomas.

Practical treatise on heat as applied to the useful arts, for

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Contents: General principles and data.—Combustion.—Steam-boilers.—

The efflux of air, etc.—Chimneys.—Vapours.—Evaporation.—Distillation.—Drying.—Heating liquids.—Heating air.—The transmission of heat and laws of cooling.—Laws of cooling at high temperatures.—Ventilation.—Examples of buildings heated and ventilated.—Wind, and its effects on ventilation, etc.—Appendix.

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Heating and ventilating buildings; an elementary treatise.

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HAUSBRAND, E.

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Practical discussion of theoretical principles of drying. The mechanical part of the question is omitted.

JOHNSTON, Sidney Paine, *comp.*

House warming manual; essays on steam heating, hot

water heating, warm air heating. 1898.....697 J37

These essays received prizes in a competition for the best method of heating and ventilating a specified dwelling. Gives complete plans and detailed estimates of cost for each system and affords a good comparison.

KITTREDGE, A. O. *ed.*

Metal worker essays on house heating by steam, hot water

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Plans for the application of each system to the same house, with estimates of cost and criticisms of the designs.

LAWLER, James Joseph.

Practical hot water heating, steam and gas fitting. 1895....697 L41

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MORRISON, Gilbert Burnet.

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For school-teachers, janitors, etc. Discusses various systems, their advantages and disadvantages, and their correct use.

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Practical guide to the instalment of warm air house-heating plants.

SNOW, William G.

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Hot-water heating and fitting; or, Warming buildings by hot-water; a description of modern hot-water heating apparatus, the methods of their construction and the principles involved. 1891.....697.4 B19

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Practical treatise upon warming buildings by hot water and upon heating appliances in general; rewritten by Frederick Dye. 1897.....697.4 H76

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On heating; or, "Steam heating for buildings" revised; a description of steam heating apparatus for warming and ventilating large buildings and private houses. 1897697.5 B19

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Charts for low pressure steam heating. 1896.....qr697.5 K26

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McNEILL, Thomas E.

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698 Painting. Varnishing. Glazing

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 Painter, gilder and varnisher's companion. 1894.....698 B71
- DAVIDSON, Ellis A.
 Practical manual of house-painting, graining, marbling and sign-writing. 1900.....698 D29
 Treats chiefly of sign-painting and interior work. Gives useful plates for grainers and marblers. Includes a course in drawing for decorators and sign-painters.
- PEARCE, Walter John.
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 Process and receipts, for practical workers.
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also the true forme of the fornace and the secretes
thereof. 1898.....qr698.5 G26
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HAGEN, Robert.

Praktische anleitung zur schriftmalerei; mit besonderer
berücksichtigung der construction und berechnung von
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CAR-BUILDERS' dictionary; an illustrated vocabulary of
terms which designate American railroad cars, their
parts and attachments; comp. for the Master car-build-
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VOSS, William.

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Report of the proceedings of the annual convention (1st-
6th, 9th, 14th-24th, 26th-date), 1867-72, 1875, 1880-90,
1892-date. 1875-date.....r699.05 M46
———Index, 1867-1900, v.1-34. 1902.

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Previous to 1867 the society was called the National car masters' associ-
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699.1 Boat-building

For Naval architecture, see 623.8

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specifications, schedule of material, weights and costs;
[plates]. 1900. (United States—Construction and re-
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HOPKINS, Nevil Monroe.

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"While the author deals with only the direct-acting screw type of ma-

rine engine, and gives directions for the making of shell and water-tube boilers only, the introduction of the writer's system of constructing small steam cylinders without patterns and castings, and boilers without the use of special tools, will enable one with mechanical ability to apply the methods in a general manner, embracing almost any type of model engine and boiler." *Preface.*

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Contents: Electrical boats.—Storage battery boats.—Storage launch fleets and passenger boats.—Special features of storage launch operation and charging.—Special electrical craft.—Submarine electric torpedo boats.—Dirigible electric "torpedoes" for warfare and life saving.—Some general consideration on electric launch requirements.—Canal boat propulsion.—Conditions entering into canal boat propulsion.—Methods of applying electricity to canal boat propulsion.—Methods of electric canal boat propulsion with motor exterior to boat.—Generating plant and distribution.—Resistance of canal boats.—Propulsion.—Miscellaneous uses of electrical power.—Storage batteries, motors and dynamotors.

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Plans and directions for building a cheap twenty-foot launch.

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Contents: Designing.—Tools and materials.—Punts.—Clench-built skiffs.—The Rob Roy canoe.—The sailing boat.—Canadian bateau.—Canvas canoe.—American shooting punt.

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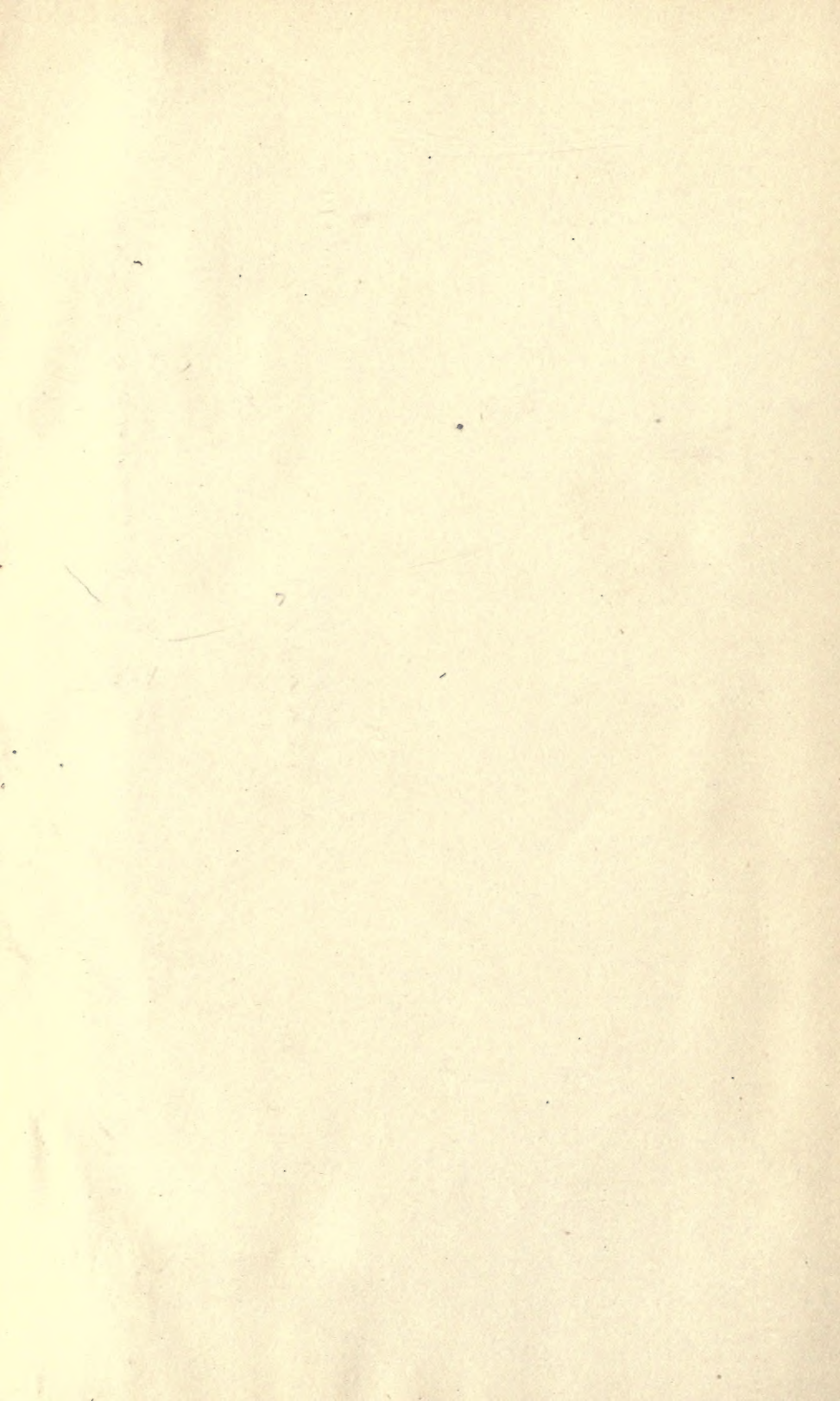
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v.1. Text. v.2. Plates.

Errata

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22	<i>For</i> Harper, Francis Parego <i>read</i> Harper, Francis Perego.
88	Mill, J. S. In first line of contents, <i>for</i> utilimate <i>read</i> ultimate.
104	Hobbes, Thomas. <i>For call number</i> 192 H69 <i>read</i> 192 H64.
247	Great religions. In fifth line of contents, <i>for</i> Postivism <i>read</i> Positivism.
253	<i>For</i> Anderson, Rasmus Bjorn <i>read</i> Anderson, Rasmus Björn.
302	<i>For</i> Anderson, Rasmus Bjorn <i>read</i> Anderson, Rasmus Björn.
347	Women's clubs of Pittsburgh, etc. <i>For call number</i> 331.85 W85 <i>read</i> r331.85 W85.
431	In second line on page, <i>for</i> (r336.1 U25de) <i>read</i> (r336.1 U25r).
519	<i>Cancel the entry</i> Railway age.
540	Baldwin, James. <i>For call number</i> r398 B19s <i>read</i> j398 B19s.
646	Remsen, Ira. Introduction to the study of chemistry. <i>Transfer note to p.676 under</i> Remsen, Ira. Introduction to the compounds of carbon.
653	Nernst, Walther. In third line of note, <i>for</i> meiner <i>read</i> meinen.
681	Caillaux, Alfred. <i>For call number</i> r620.6 S678 <i>read</i> r620.5 S678.
700	Hopkins, T. C. First line of title, <i>for</i> Pennsylvania <i>read</i> Pennsylvaniam.
708	In second line on page, <i>for</i> v.9 <i>read</i> v.10.
708	In fourth line of note under first title, <i>for</i> v.9 <i>read</i> v.11.
708	In first line of note under second title, <i>for</i> v.9 <i>read</i> v.12.
710	New Jersey—Geological survey. (2d survey). <i>File before</i> New Jersey—Geological survey. (3d survey) on same page.
724	Holmes, W. H. In note, <i>for</i> Bibliography of the Yellowstone national park, p.427-449 <i>read</i> Bibliographical appendix, p.427-449.
781	Rydberg, P. A. comp. <i>For call number</i> qr580 N26 v.1 <i>read</i> qr580.5 N26 v.1.
817	Holland, W. J. In last line of note, <i>for</i> North American <i>read</i> North America.
865	<i>For</i> Blakie, William, <i>read</i> Blaikie, William.
869	Analyst. In second line of title, <i>for</i> analysis <i>read</i> analysts.
871	In class heading, <i>for</i> 614.5 <i>read</i> 614.4.
913	Dynamic electricity. In third line of title, <i>for</i> Schoolbred <i>read</i> Shoolbred.

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917	The same. 1897. <i>For call number 621.312 T38d v.2 read 621.31 T38d2 v.2.</i>
937	<i>For Barringer, David Moreau read Barringer, Daniel Moreau.</i>
951	Watson, T. H. <i>For call number r623.8 W32 read q623.8 W32.</i>
978	Billings, J. S. <i>For call number b628.8 B48 read 628.8 B48.</i>
984	United States—Hawaii agric. ex. station. In second line of contents, <i>for Van Dyne read Van Dine.</i>
1032	<i>For Metcalf, Capt. Henry read Metcalfe, Capt. Henry.</i>
1056	<i>For Association of Gas Engineers and Managers read Associations of Gas Engineers and Managers.</i>





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